PIONEER®
The Art of Entertainment

Service Manual

ORDER NO.
RRV1813

AUDIO/VIDEO STEREO RECEIVER

VSX-906RDS

● Refer to the service manual RRV1780 for VSX-D736S/HLXJI.

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	The voltage can be converted by the following method.
	VSX-906RDS		
HYXJI	○	AC220 - 230V	AC240V, *
HYXJIGR	○	AC220 - 230V	AC240V, *

* : Alter the wiring of the Power-supply block at the primary winding of power-transformer referring to the "Line Voltage Selection" described in Service Manual.

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T–ZZK MAY 1997 Printed in Belgium

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES :
- *Parts marked by "* NSP *" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing,be sure to use parts of identical designation.*
- *Ref. No. : Numbers following P and hyphen (-) indicate the page(s) and location number(s) in the RRV1780 service manual, respectively.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex. 1 *When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).*

560 Ω	→	*56 x 10¹*	→	*561*	..... *RD1/4PU* [5][6][1] *J*
47k Ω	→	*47 x 10³*	→	*473*	..... *RD1/4PU* [4][7][3] *J*
0.5 Ω	→	*R50*			..... *RN2H* [R][5][0] *K*
1 Ω	→	*1R0*			..... *RS1P* [1][R][0] *K*

Ex. 2 *When there are 3 effective digits (such as in high precision metal film resistors).*

5.62k Ω	→	*562 x 10¹*	→	*5621*	..... *RN1/4PC* [5][6][2][1] *F*

■ CONTRAST TABLE

VSX-906RDS/HYXJI,VSX-906RDS/HYXJIGR and VSX-D736S/HLXJI have the same construction except for the following:

Ref. No.	Mark	Symbol & Description	Part No.			Remarks
			VSX-D736S/ HLXJI	VSX-906RDS/ HYXJI	VSX-906RDS/ HYXJIGR	
	NSP	FRONT & R/C AMP ASSY	AWK7363	AWK7360	AWK7360	
P7-2		└ FL/U-COM ASSY	AWZ8638	AWZ8635	AWZ8635	
P7-16		FL Filter	AAK7294	AAK7297	AAK7297	
P7-17		PVC Panel	AAK7357	AAK7356	AAK7356	
P3-12		Packing Case	AHD7404	AHD7403	AHD7403	
P7-19		Front Panel	ANB7085	ANB7084	ANB7084	
P7-20		Door Panel	ANB7088	ANB7086	ANB7086	
P6-23		Rear Panel	ANC7535	ANC7533	ANC7533	
P3-3		Operating Instructions (English)	ARB7099	Not used	Not used	
P3-3		Operating Instructions (German)	Not used	ARC7144	ARC7144	
P3-8		Operating Instructions (Chinese)	ARC7145	Not used	Not used	
		Operating Instructions (Dutch/Swedish/Spanish/Portuguese)	Not used	ARC7162	Not used	
		Operating Instructions (English/French/Italian)	Not used	ARE7099	Not used	
P3-4		Sub Instruction Manual (ISC) (Remote Control Unit) (English)	ARH7015	Not used	Not used	
P3-7		Sub Instruction Manual (AC-3) (English)	ARH7016	Not used	Not used	
	NSP	Warranty Card	Not used	ARY7009	ARY7009	
P3-9		Remote Control Unit (CU-VSX116)	AXD7106	Not used	Not used	
P3-9		Remote Control Unit (CU-VSX119)	Not used	AXD7136	AXD7136	
P6-18	⚠	AC Power Cord	PDG1058	ADG7016	ADG7016	

REMOTE CONTROL UNIT

AXD7136 and AXD7106 have the same construction except for the following:

Ref. No.	Mark	Symbol & Description	Part No.		Remarks
			AXD7106	AXD7136	
P80-2		Name Plate	AZA7241	AZA7258	
P83		R2001,R2002	RS1/8S0R0J	Not used	

■ CONTRAST OF PCB ASSEMBLIES

FL/U-COM ASSY

AWZ8635 and AWZ8638 have the same construction except for the following:

Mark	Symbol & Description	Part No.		Remarks
		AWZ8638	AWZ8635	
	IC951	Not used	SAA6579	*
	Q951	Not used	KRC101M	*
	Q952	Not used	2SA1115	*
	Q953	Not used	2SC1740S	*
	D921	1SS252	Not used	
	L951	Not used	LAU2R2J	*
	C951	Not used	CCCCH820J50	*
	C952	Not used	CCCCH470J50	*
	C953	Not used	CEJA101M10	*
	C954,C958	Not used	CGCYX103M16	*
	C955	Not used	CKCYB561K50	*
	C956	Not used	CEJA2R2M50	*
	C957	Not used	CEJA1R0M50	*
	C959	Not used	CEJA101M10	*
	R951	Not used	RD1/4PU473J	*
	R952,R953	Not used	RD1/4PU222J	*
	R954,R956	Not used	RD1/4PU102J	*
	R955	Not used	RD1/4PU104J	*
	R957	Not used	RD1/4PU333J	*
	S917	Not used	ASG1034	*
	X951 (4.332MHz)	Not used	ASS7004	*

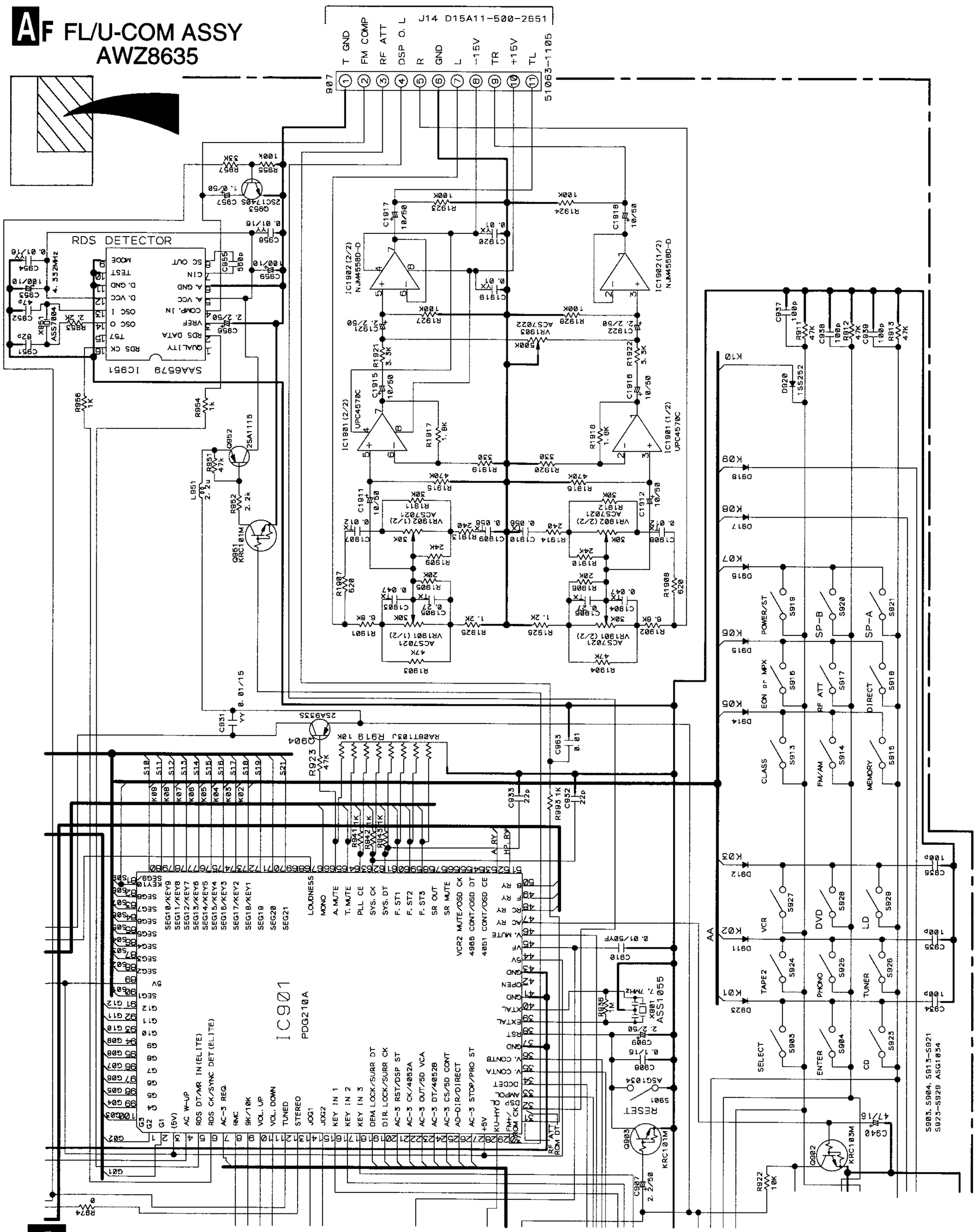
NOTE * : Refer to "2. SCHEMATIC DIAGRAM".

2. SCHEMATIC DIAGRAM

2.1 FL/U-COM ASSY

C 1/3 CN411

AF FL/U-COM ASSY
AWZ8635



Service Manual

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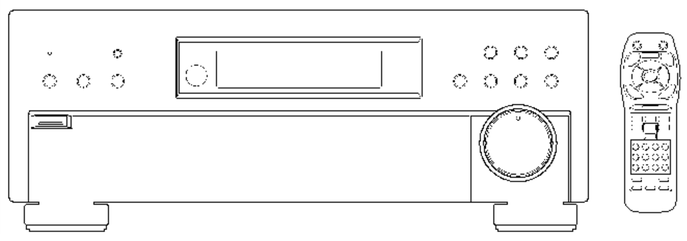

ORDER NO.
RRV1780

AUDIO/VIDEO STEREO RECEIVER

VSX-D736S

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model	Power Requirement	The voltage can be converted by the following method.
	VSX-D736S		
HLXJI	O	AC220 – 230V	AC240V, ✻
YPWXJI	O	AC240V	———

✻ : Alter the wiring of the Power-supply block at the primary winding of Power-transformer referring to the "Line Voltage Selection" described in Service Manual.

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1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).
When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

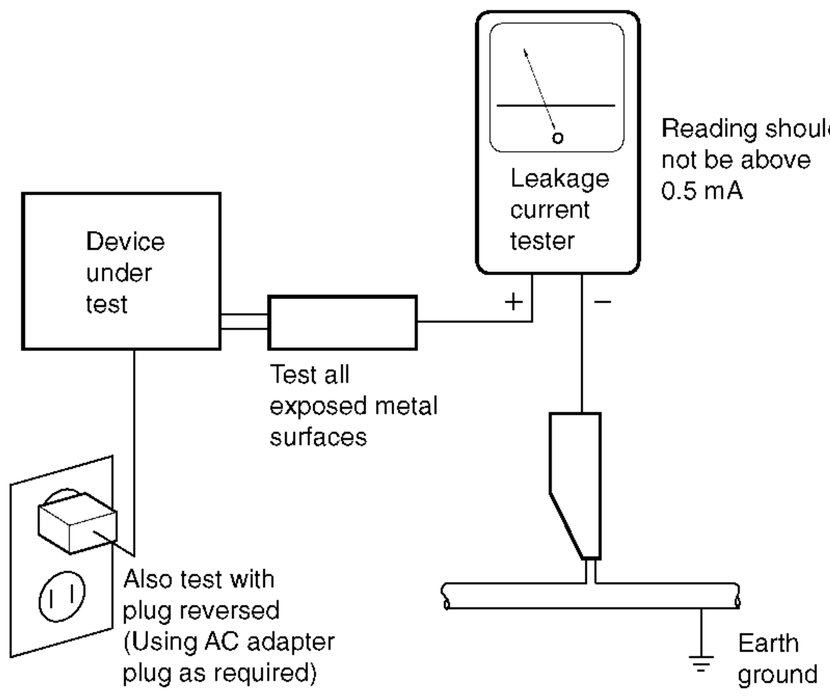
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.


Reading should not be above 0.5 mA
Leakage current tester
Device under test
+
–
Test all exposed metal surfaces
Also test with plug reversed (Using AC adapter plug as required)
Earth ground

AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

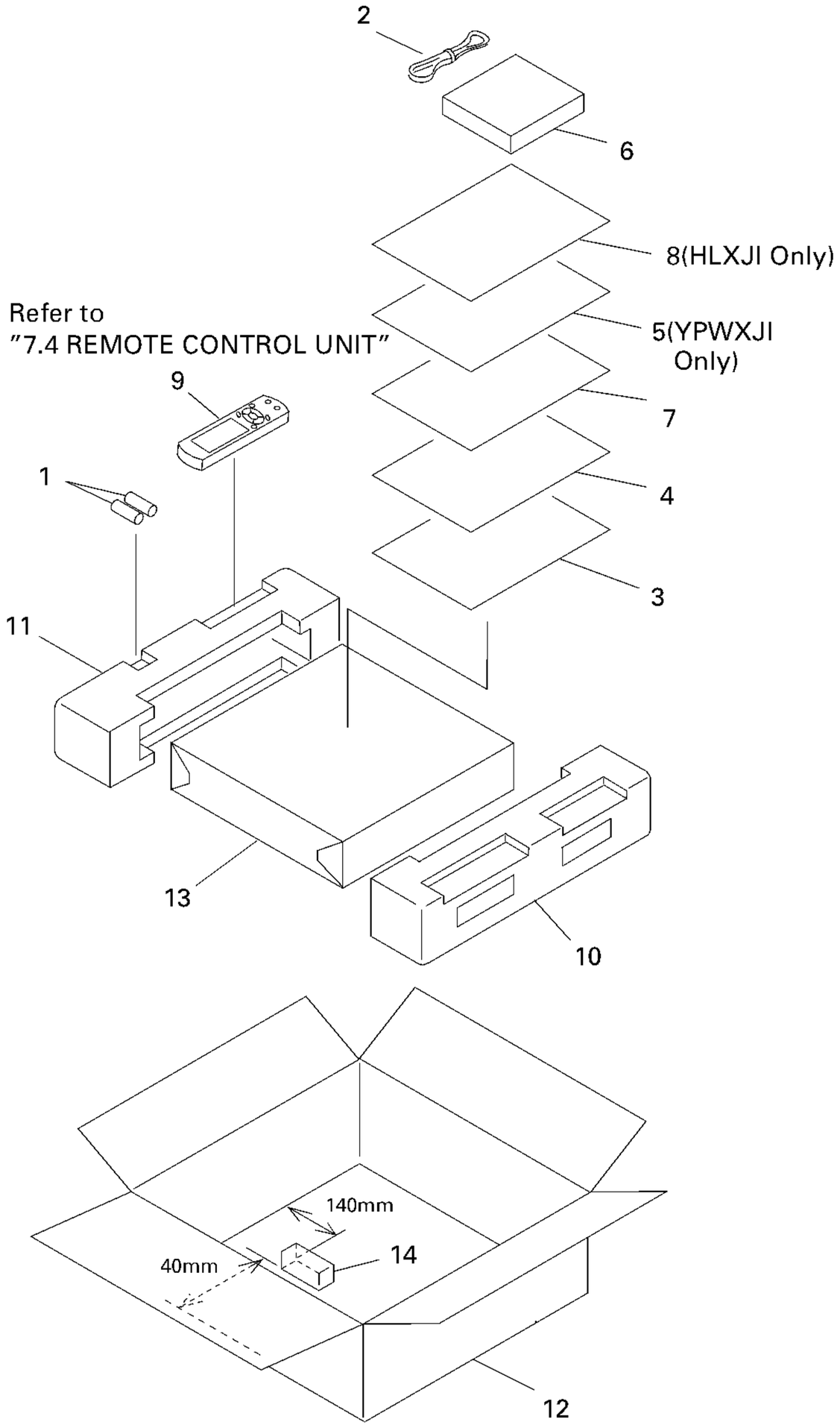
Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. EXPLODED VIEWS AND PARTS LIST

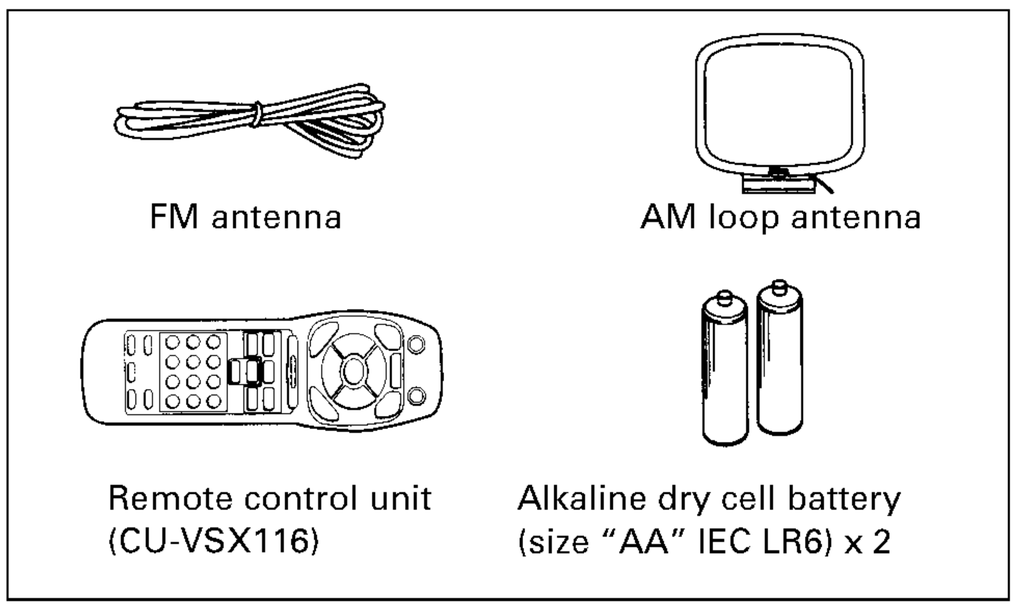
NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*

2.1 PACKING



(1) PARTS LIST

Mark	No.	Description	Parts No.
NSP	1	Alkaline Dry Cell Battery (LR6,AA)	AEX1007
	2	FM Antenna	ADH7005
	3	Operating Instructions (English)	ARB7099
	4	Sub Instruction Manual (Remote Control Unit) (English)	ARH7015
NSP	5	Warranty Card	See Contrast table (2)
	6	AM Loop Antenna	ATB7009
	7	Sub Instruction Manual (AC-3) (English)	ARH7016
	8	Operating Instructions (Chinese)	See Contrast table (2)
	9	Remote Control Unit (CU-VSX116)	AXD7106
	10	Front Pad	AHA7139
	11	Rear Pad	AHA7140
	12	Packing Case	AHD7404
	13	Packing Sheet	AHG7010
	14	Sub Pad B	AHB7027

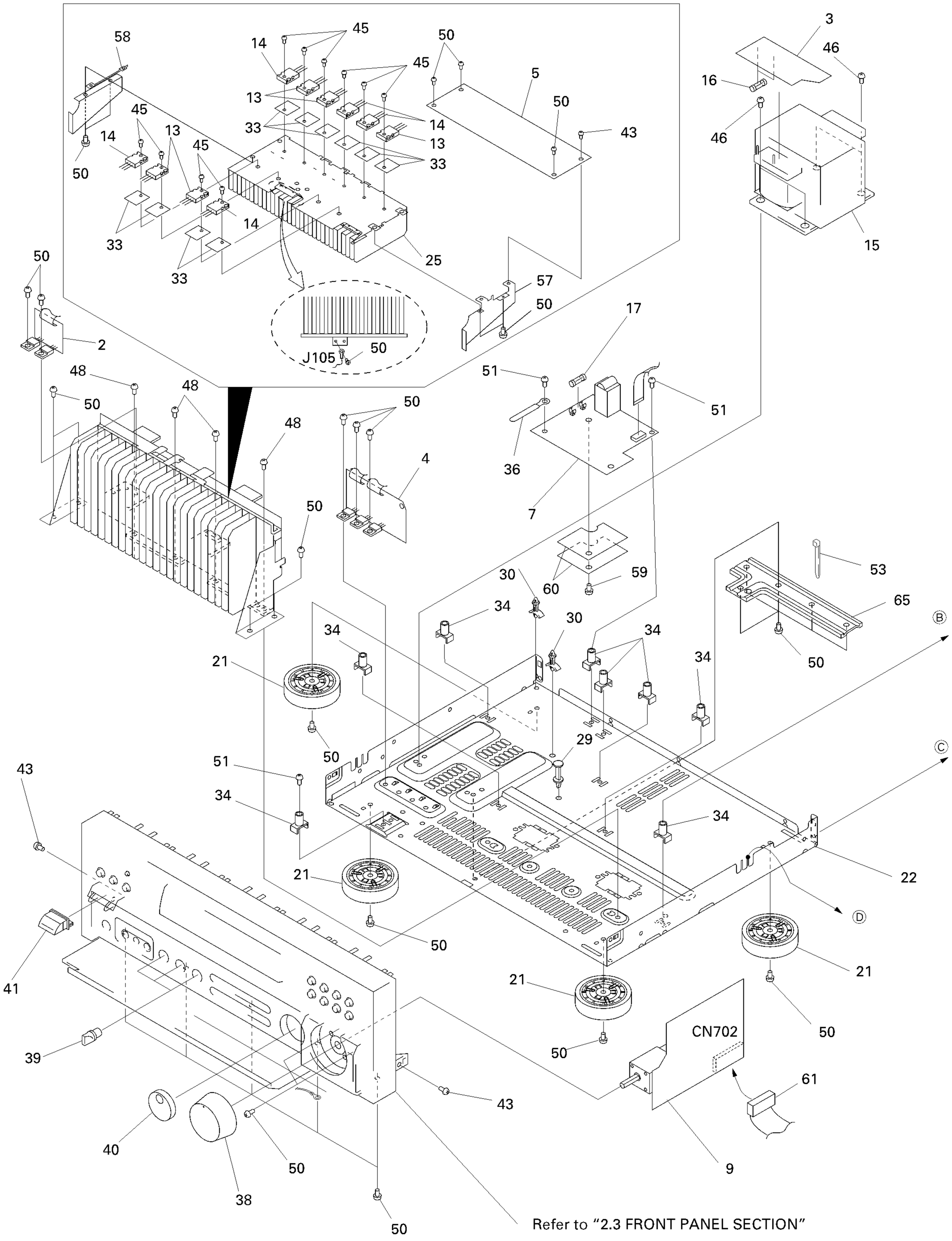


(2) CONTRAST TABLE

VSX-D736S/YPWXJI and HLXJI have the same construction except for the following :

Mark	No.	Srmbol & Description	Part No.		Remarks
			VSX-D736S		
			HLXJI	YPWXJI	
NSP	5	Warranty Card	Not used	PRY1003	
	8	Operating Instructions (Chinese)	ARC7145	Not used	

2.2 EXTERIOR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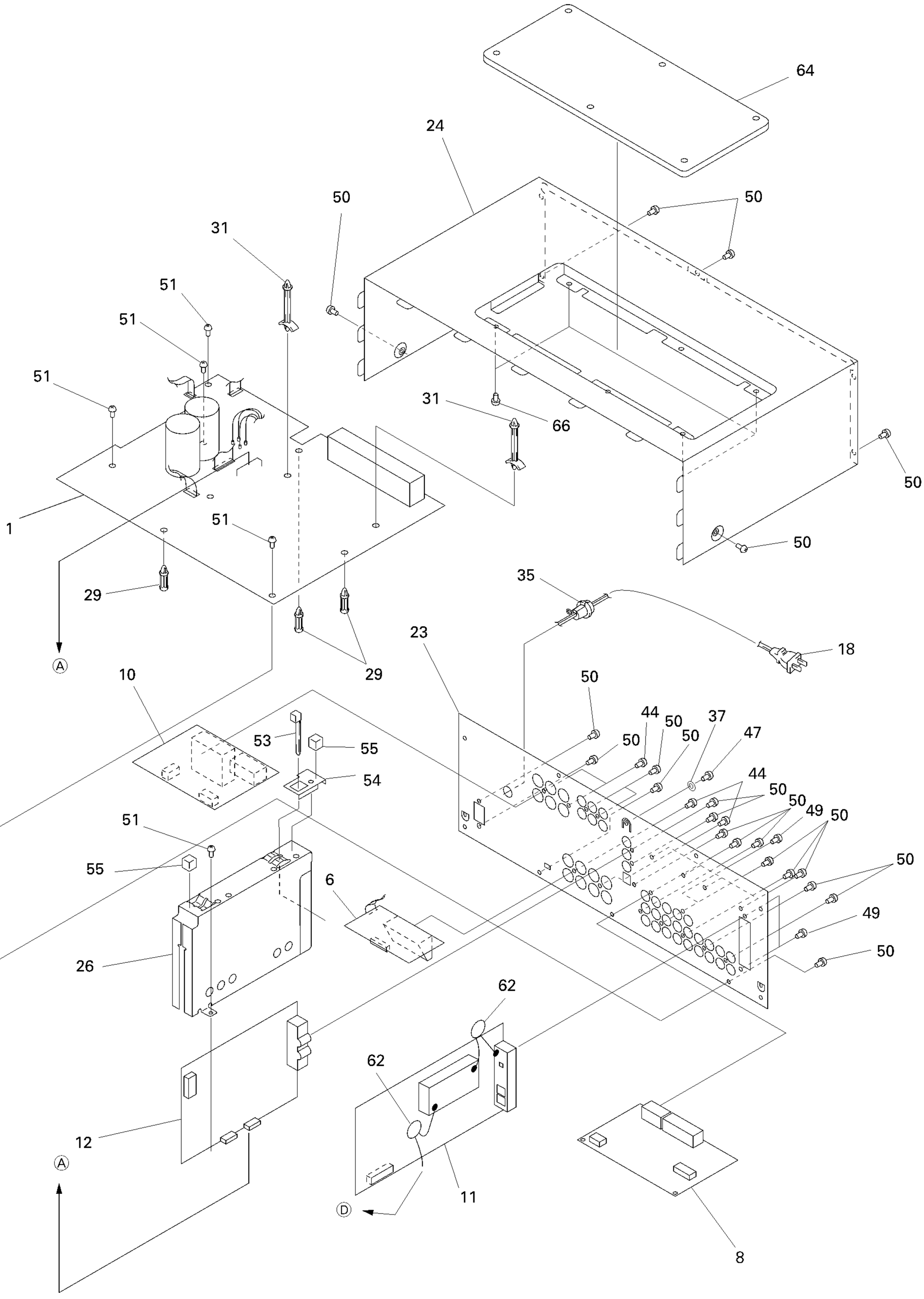
Refer to “2.3 FRONT PANEL SECTION”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C
D

(1) PARTS LIST

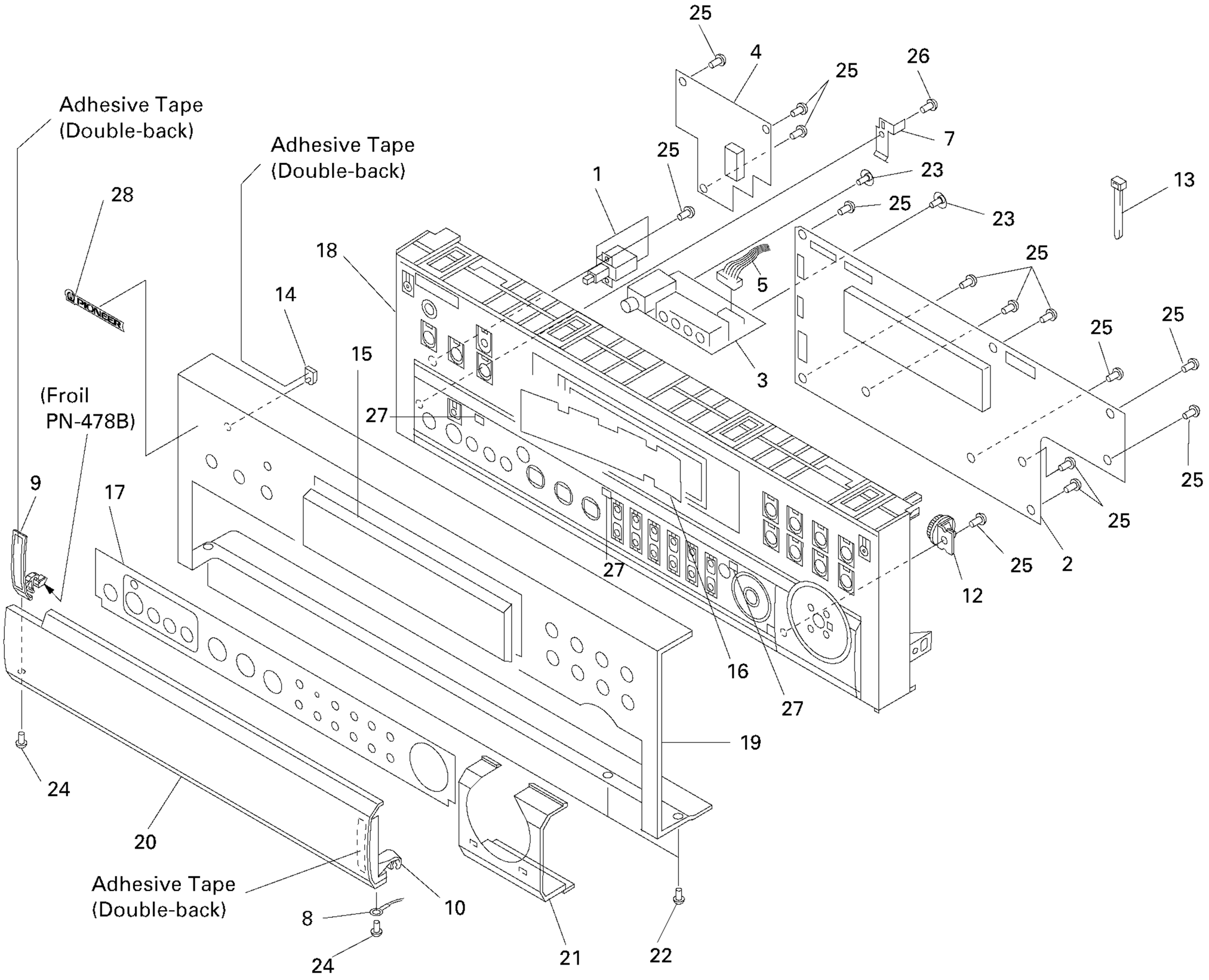
Mark	No.	Description	Parts No.
	1	INPUT ASSY	AWZ8633
	2	REG.2 ASSY	AWZ8498
	3	TRANS ASSY	AWZ8634
	4	REG.1 ASSY	AWZ8840
	5	R/C AMP ASSY	AWZ8628
NSP	6	FRONT SP ASSY	AWZ8631
NSP	7	PRIMARY ASSY	AWZ8630
	8	VIDEO/SR ASSY	AWZ8842
	9	VOLUME ASSY	AWZ8841
	10	R/C SPEAKER ASSY	AWZ8637
	11	FM/AM TUNER MODULE	AXQ7041
	12	DOLBY DIGITAL ASSY	AWX7041
⚠	13	Transistor (Q3, Q4, Q7, Q8, Q10)	2SA1943 (P)
⚠	14	Transistor (Q1, Q2, Q5, Q6, Q9)	2SC5200 (P)
⚠	15	Power Transformer (AC240V)	ATS7170
⚠	16	Fuse (FU3-FU5 : T1.25A)	AEK1055
⚠	17	Fuse (FU1 : T3.15A)	AEK1059
⚠	18	AC Power Cord	See Contrast table (2)
	19	.....	
	20	.....	
	21	Leg Assy	AMR2633
	22	Chassis	ANA7059
	23	Rear Panel	See Contrast table (2)
	24	Bonnet Case	ANE7154
	25	Radiator	ANH7053
	26	Shield Case	ANK7026
	27	.....	
	28	.....	
	29	PCB Support	AEC1581
	30	PCB Support	AEC7006
	31	PCB Support	AEC7056
	32	.....	
	33	Sheet	AEE7010
	34	PCB Mold	AMR2533
	35	Cord Stopper	CM-22B
NSP	36	Clamper	RNE1277
	37	Washer	VEC1254
	38	Round Knob L	AAB7124
	39	Round Knob S	AAB7120
	40	Jog Knob	AAB7121
	41	Power Button	AAD7373
	42	.....	
	43	Screw	ABA – 298
	44	Screw	ABA1007
	45	Screw	ABA1037
	46	Screw	ABA7019
	47	Screw	ABA7035
	48	Screw	ABA1147
	49	Screw	ABA – 115
	50	Screw	BBZ30P080FZK
	51	Screw	BBZ30P200FMC
	52	.....	
NSP	53	Binder	ZCA – BK1
	54	ISO Plate	ANG7141
NSP	55	Cushon	AEB7081
	56	.....	
	57	Radiator Holder L	ANG7125
	58	Radiator Holder R	ANG7126
	59	Push Rivet	AEC7025
	60	PVC Sheet	AEC7087
	61	Connector Assy	PF06PP0S10
	62	Capacitor (C1, C2)	CCDSL271J50
	63	.....	
	64	Top Cover	AME1086
	65	Bottom Holder	ANG7145
	66	Screw	BPZ30P080FMC

(2) CONTRAST TABLE

VSX-D736S/YPWXJI and HLXJI have the same construction except for the following :

Mark	No.	Srmbol & Description	Part No.		Remarks
			VSX-D736S		
			HLXJI	YPWXJI	
⚠	18	AC Power Cord	PDG1058	ADG1159	
	23	Rear Panel	ANC7535	ANC7536	

2.3 FRONT PANEL SECTION



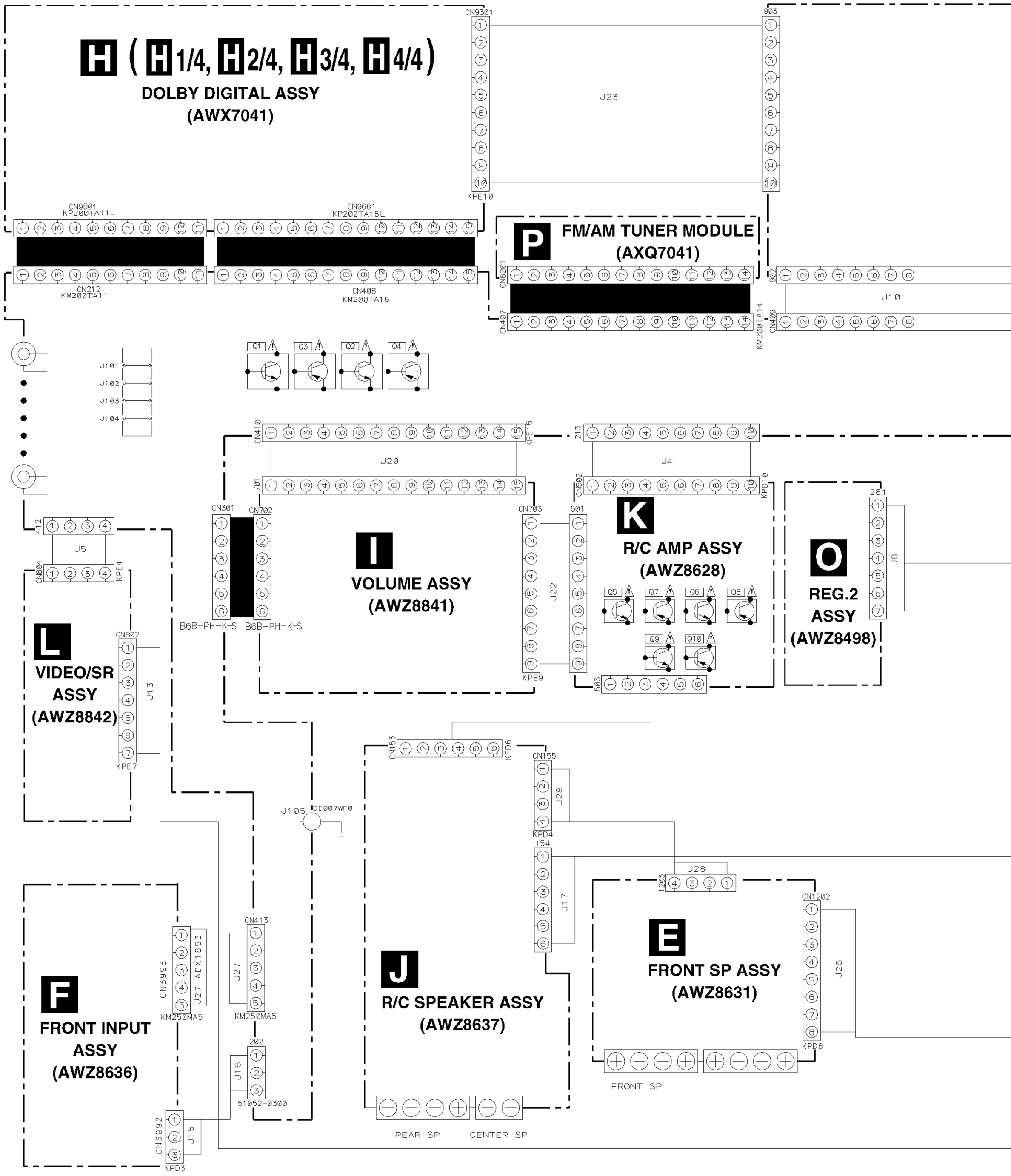
• PARTS LIST

Mark	No.	Description	Parts No.
NSP	1	MECHA SW ASSY	AWZ8503
	2	FL U–COM ASSY	AWZ8638
NSP	3	FRONT INPUT ASSY	AWZ8636
NSP	4	POWER SWITCH ASSY	AWZ8618
NSP	5	5P HOUSING WIRE	ADX7187
	6	.....	
	7	Plate Spring	ABK7011
NSP	8	Cord With Plug	ADH7016
	9	Door Hinge L	AMR7171
	10	Door Hinge R	AMR7172
	11	.....	
	12	Damper Assy	AXA7049
NSP	13	Binder	ZCA – BK1
	14	LED Lens	PNW2019
	15	FL Panel	AAK7365
	16	FL Filter	AAK7294
	17	PVC Panel	AAK7357
	18	Panel Base	AMB7428
	19	Front Panel	ANB7085
	20	Door Panel	ANB7088
	21	Sub Panel	ANB7089
	22	Screw	BBZ30P080FZK
	23	Screw	ABA7009
	24	Screw	ABA7023
	25	Screw	BPZ30P080FMC
	26	Screw	IPZ30P080FMC
	27	Cushion	AED7017
	28	Name Plate	AAM7004

3. SCHEMATIC DIAGRAM

Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST"

3.1 OVERALL CONNECTION DIAGRAM



● NOTE FOR FUSE REPLACEMENT

CAUTION— FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATINGS ONLY.

A
FL/U-COM ASSY
(AWZ8638)

B
POWER SWITCH ASSY
(AWZ8618)

906 — J11 — CN981 — KPE7

908 — J9 — CN206 — KPE15

CN411 — J14 — 907 — KPE11 — 904

J13

C (C 1/3, C 2/3, C 3/3)
INPUT ASSY
(AWZ8633)

211 — J8

CN203 — J17

217 — J26

G
REG.1 ASSY
(AWZ8840)

CN207 — J19 — 102 — KPD7

CN210 — J18 — 101 — KPD6

INPUT ASSY

FL/U-COM ASSY

D
TRANS ASSY
(AWZ8634)

216 — J1 — 291

215 — J2 — 292

FU3 AEK1055 1.25A L250V

FU4 AEK1055 1.25A L250V

FU5 AEK1055 1.25A L250V

POWER TRANSFORMER
T1 ATS7170
YPWXJI TYPE
HLXJI TYPE
240V
230V
0V

214 — J3 — CN51 — KPE4

52

M
PRIMARY ASSY
(AWZ8630)

FU1 AEK1059 T3.15AL250V

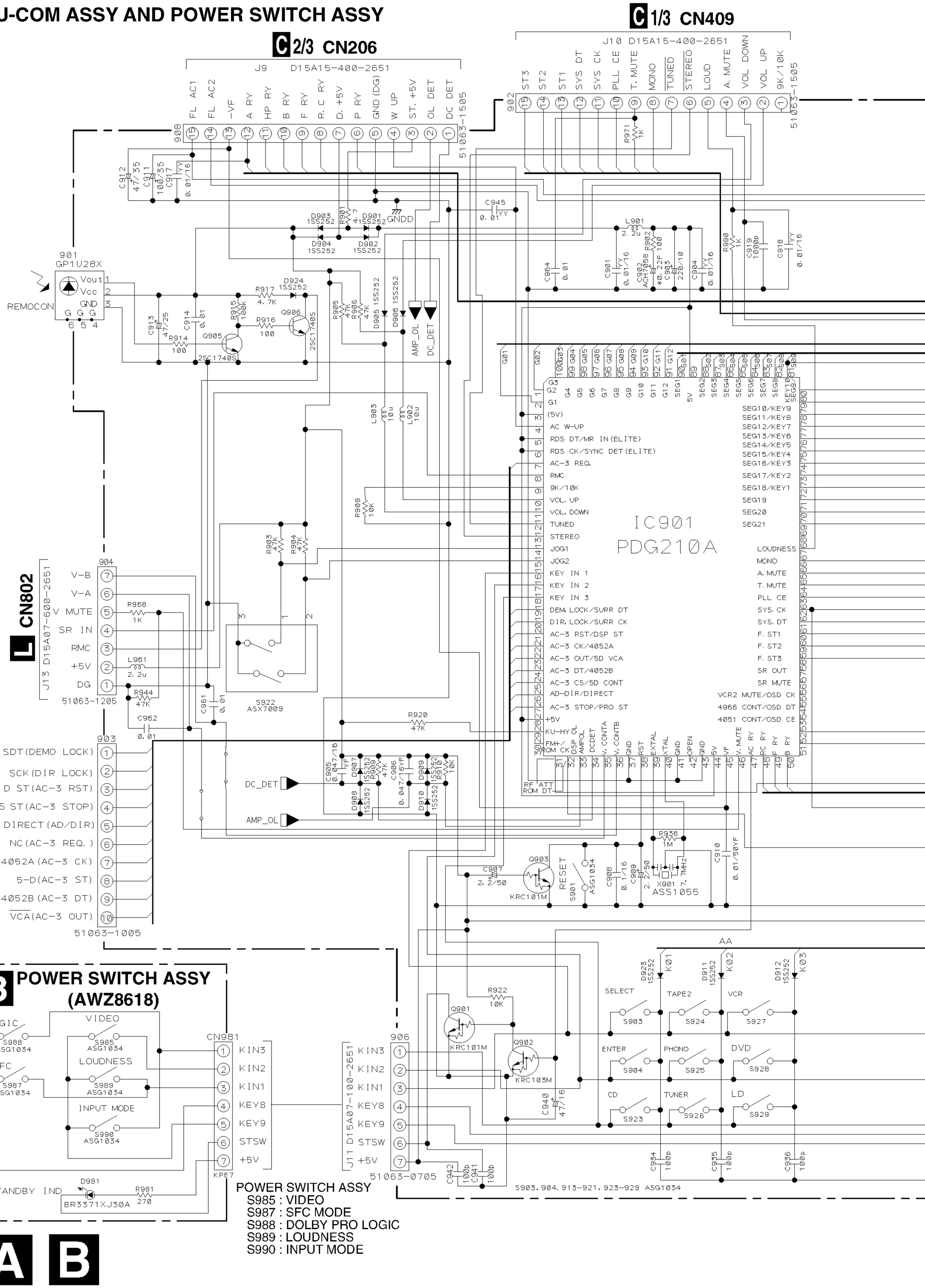
N
MECHA SW ASSY
(AWZ8503)

55. J92 WHT J92
J91 BLU J91

KN52 L
KN51 N

AC POWER CORD
PDG1058 (HLXJI TYPE)
AC220 - 230V 50Hz
ADG1159 (YPWXJI TYPE)
AC240V 50Hz

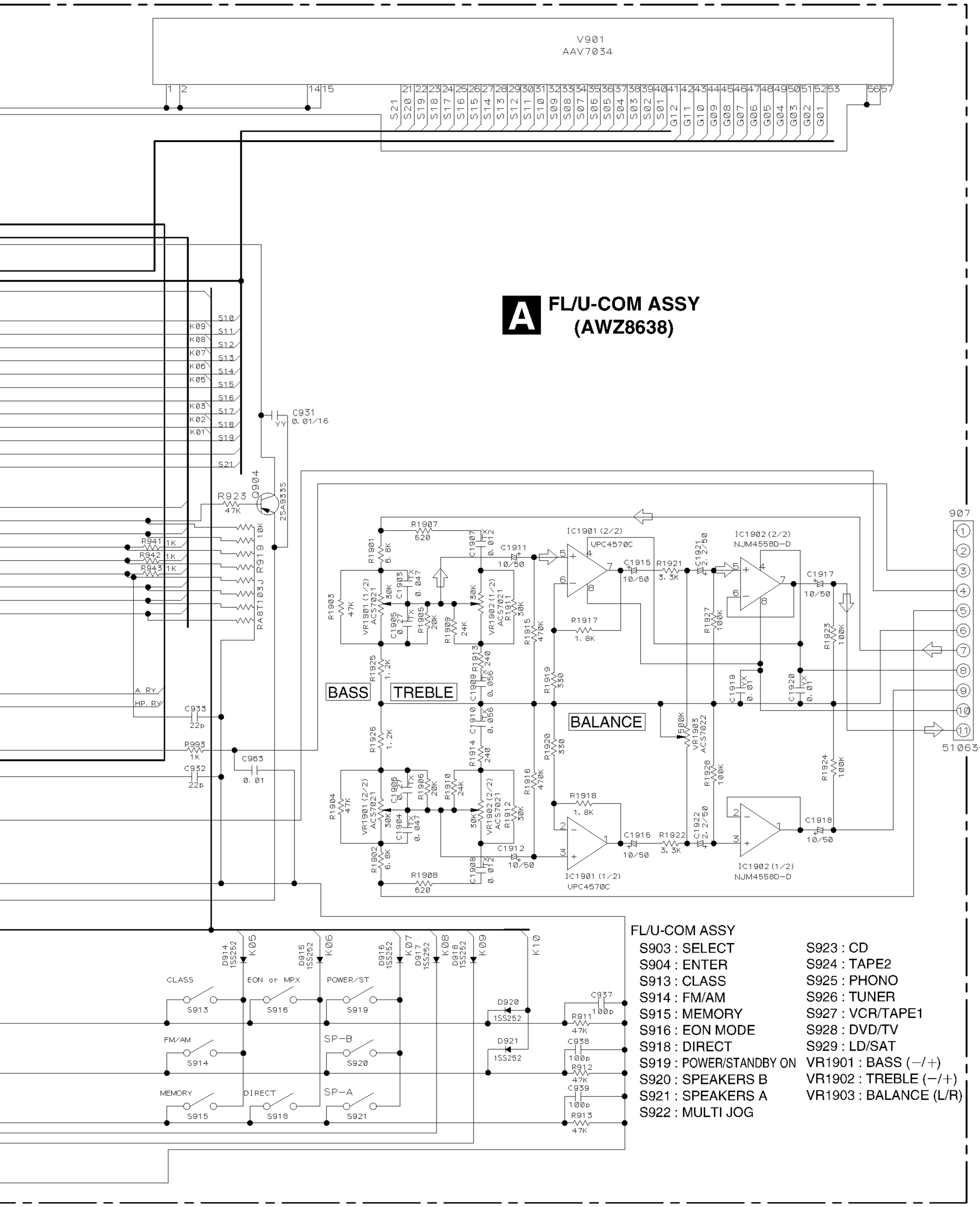
3.2 FL/U-COM ASSY AND POWER SWITCH ASSY



A B

⇨ : AUDIO SIGNAL ROUTE

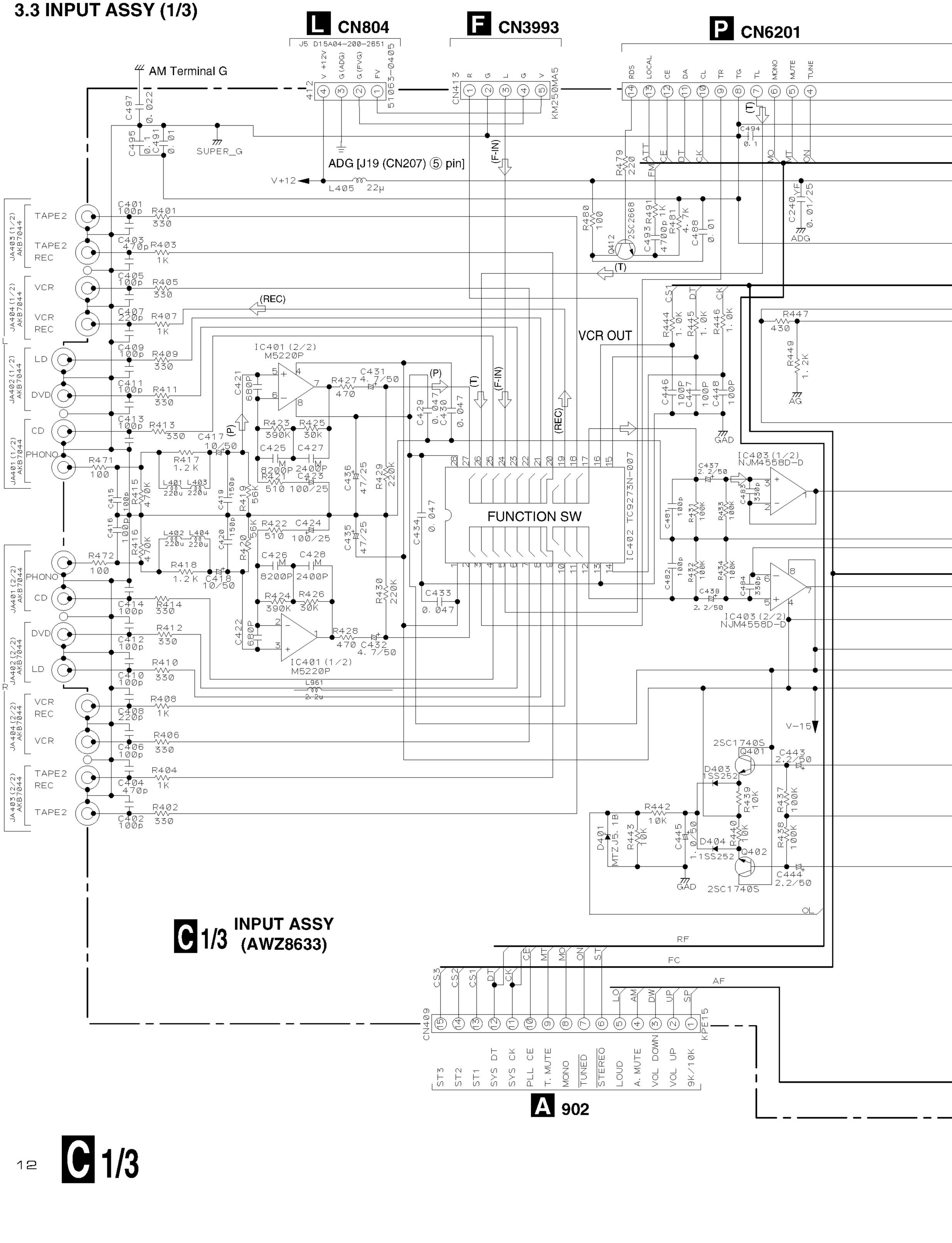
A FL/U-COM ASSY (AWZ8638)



FL/U-COM ASSY

S903 : SELECT	S923 : CD
S904 : ENTER	S924 : TAPE2
S913 : CLASS	S925 : PHONO
S914 : FM/AM	S926 : TUNER
S915 : MEMORY	S927 : VCR/TAPE1
S916 : EON MODE	S928 : DVD/TV
S918 : DIRECT	S929 : LD/SAT
S919 : POWER/STANDBY ON	VR1901 : BASS (−/+)
S920 : SPEAKERS B	VR1902 : TREBLE (−/+)
S921 : SPEAKERS A	VR1903 : BALANCE (L/R)
S922 : MULTI JOG	

3.3 INPUT ASSY (1/3)



C 1/3 INPUT ASSY (AWZ8633)

⇨ : AUDIO SIGNAL ROUTE
(SL)⇨ : AUDIO SIGNAL ROUTE (REAR)
(C)⇨ : AUDIO SIGNAL ROUTE (CENTER)
(T)⇨ : AUDIO SIGNAL ROUTE (TUNER)
(P)⇨ : AUDIO SIGNAL ROUTE (PHONO)
(REC)⇨ : AUDIO SIGNAL ROUTE (REC)
(F-IN)⇨ : AUDIO SIGNAL ROUTE (F.IN)

A 907

CN407 KM200IA14 (+12V, +5V, STEREO)
CN411 KPE11 (TL, A +15V, TR, A −15V, L, GND(AG), R, DSP O.L, RF ATT, FM COMP, T GND)
IC404 TC9162AN
IC405 TC9299P
IC406 TC9299P
IC409(2/2) NJM4558LD
IC409(1/2) NJM4558LD
IC407(2/2) NJM4558D-D
IC407(1/2) NJM4558D-D
IC408(2/2) NJM4558D-D
IC408(1/2) NJM4558D-D
D402 MTZJ5.1B
D405 1SS252
D406 1SS252
D407 1SS252
D408 1SS252
J405 DB012NG0
CASEG
AG
GAD
V+15
V−15
CK
DT
CS2
CS3
SL
SR
C
SW
AL
G
+5V
A. MUTE
AM

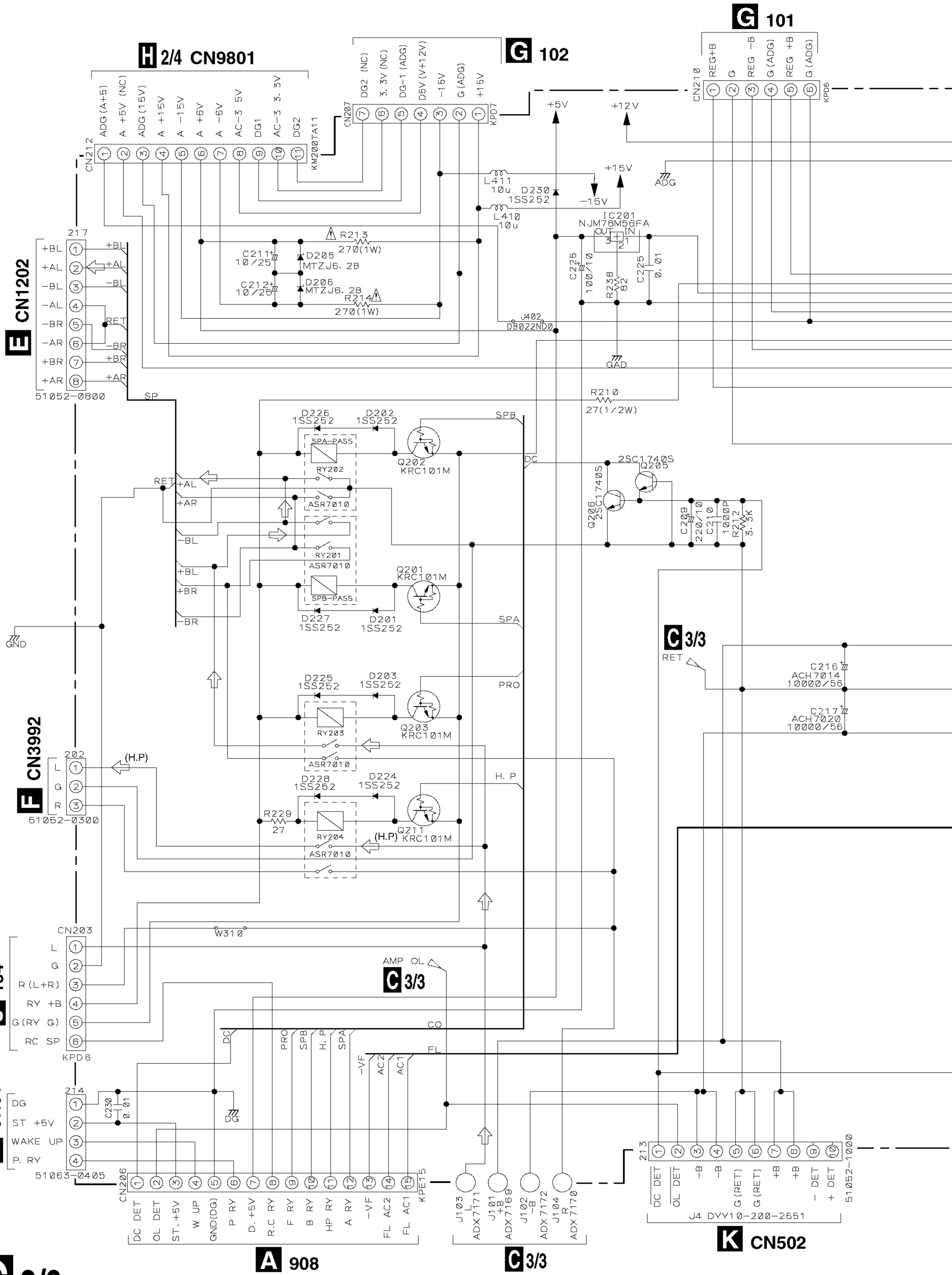
CN9661 4/4 (L)
1 L
2 G(AG)
3 R
4 G(AG)
5 FL
6 G(AG)
7 FR
8 G(AG)
9 SL
10 G(AG)
11 SR
12 G(AG)
13 C
14 G(AG)
15 DIRECT

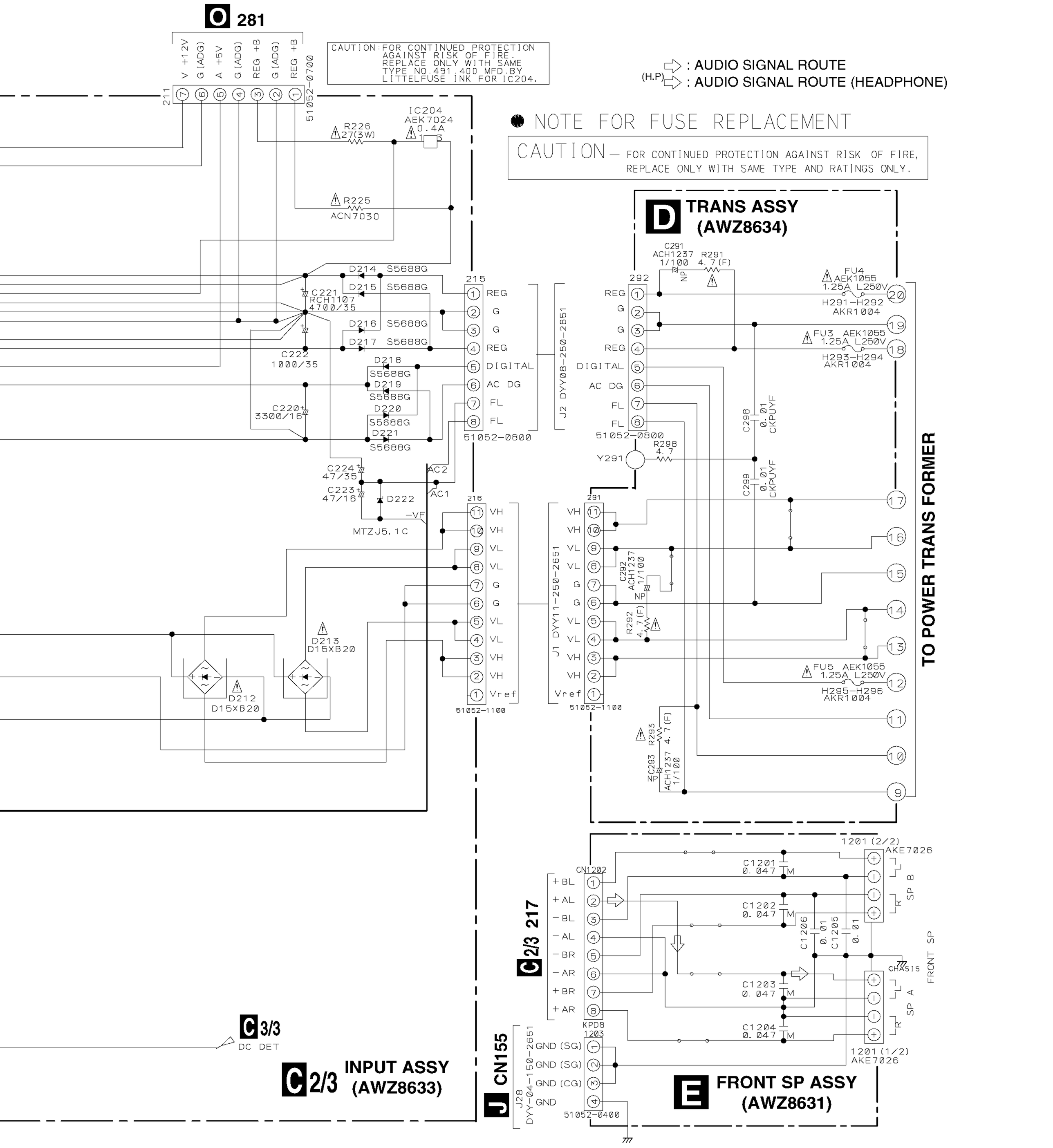
CN408 KM200TA15 (L)
15 SW
14 C
13 A −15V
12 SR
11 A +15V
10 SL
9 L IN
8 AG
7 R IN
6 MG
5 M.5V
4 LOUD
3 9K/10K
2 UP
1 DOWN

CN410 KPE15 (L)

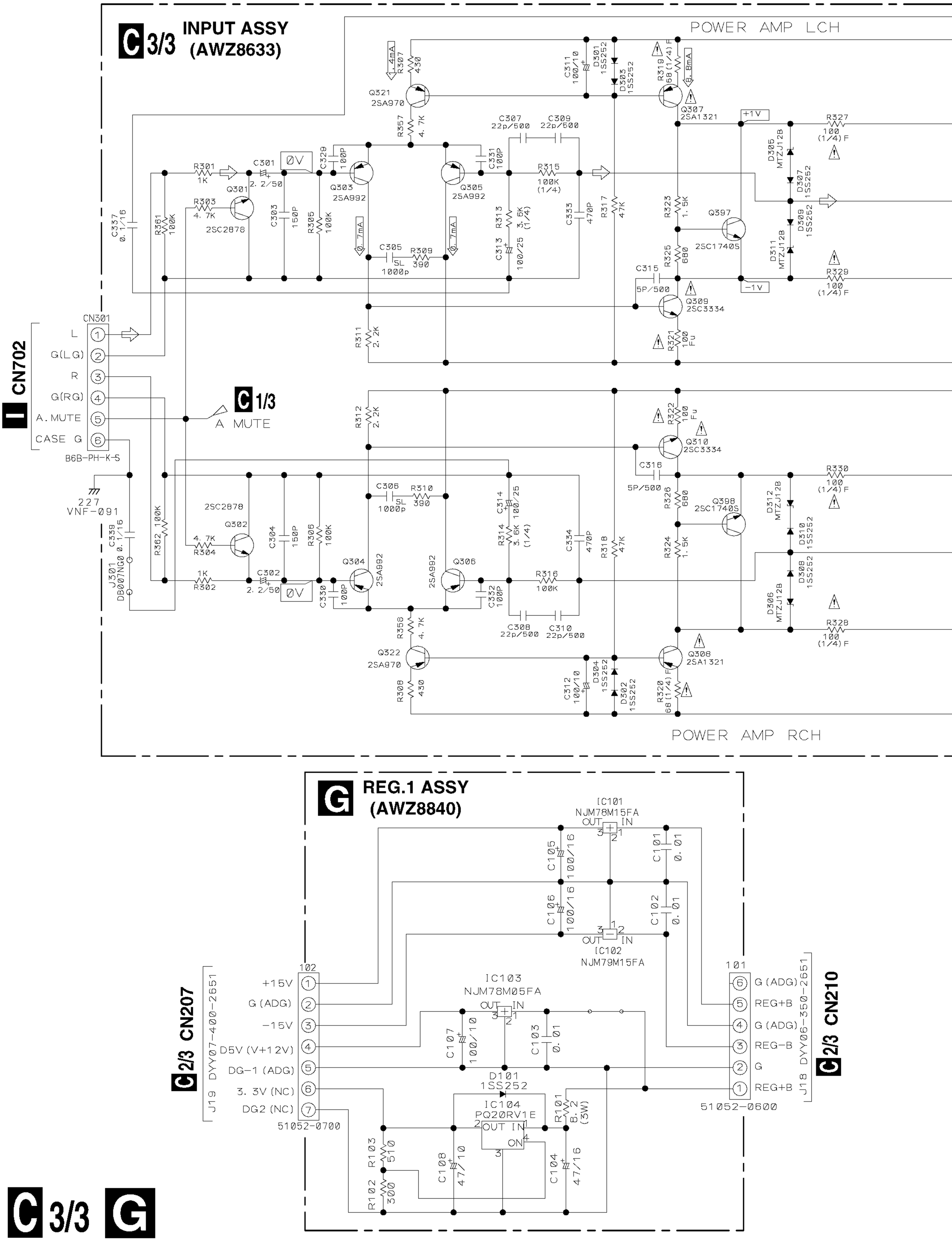
C 3/3
C 1/3

3.4 INPUT ASSY (2/3), TRANS ASSY AND FRONT SP ASSY

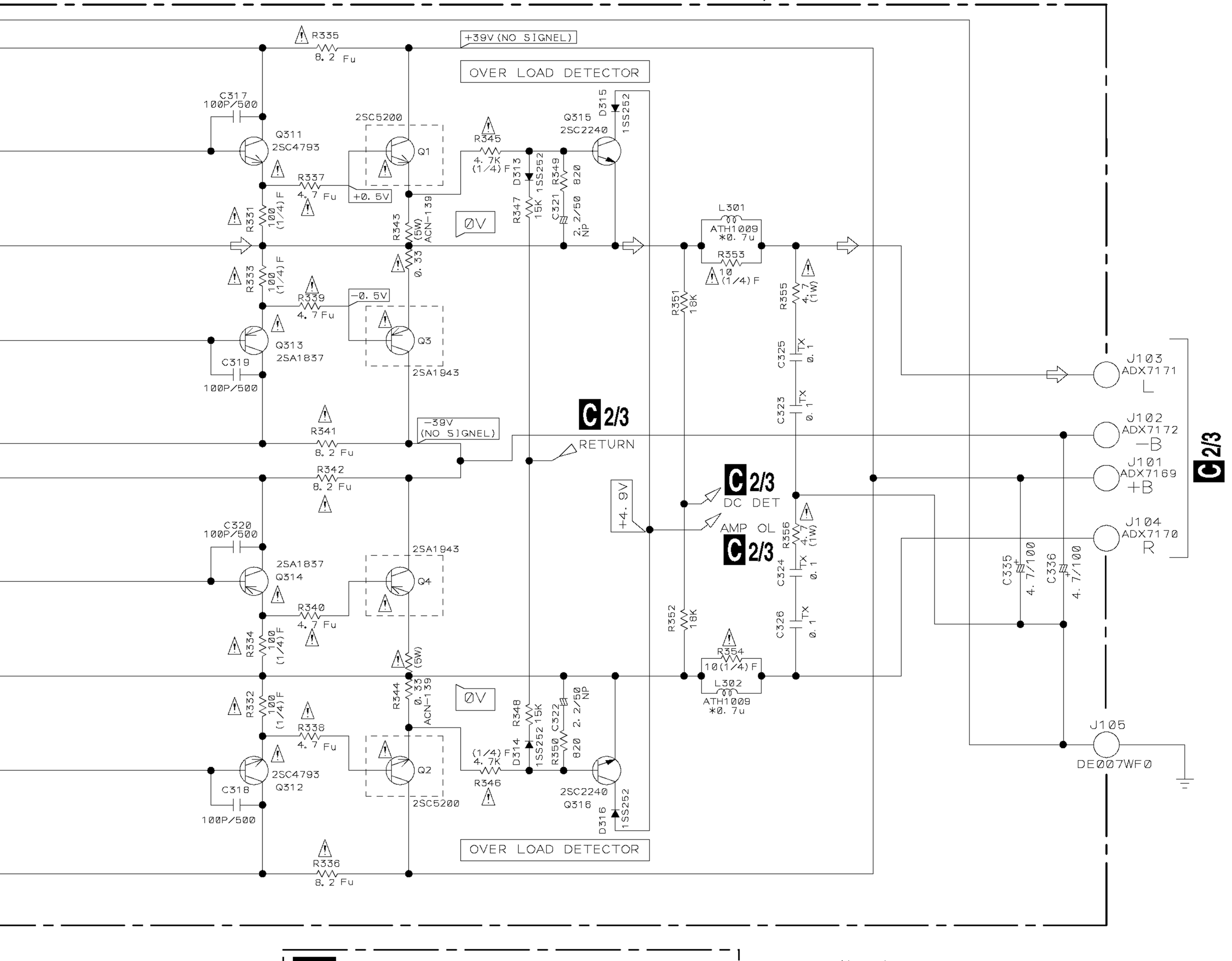


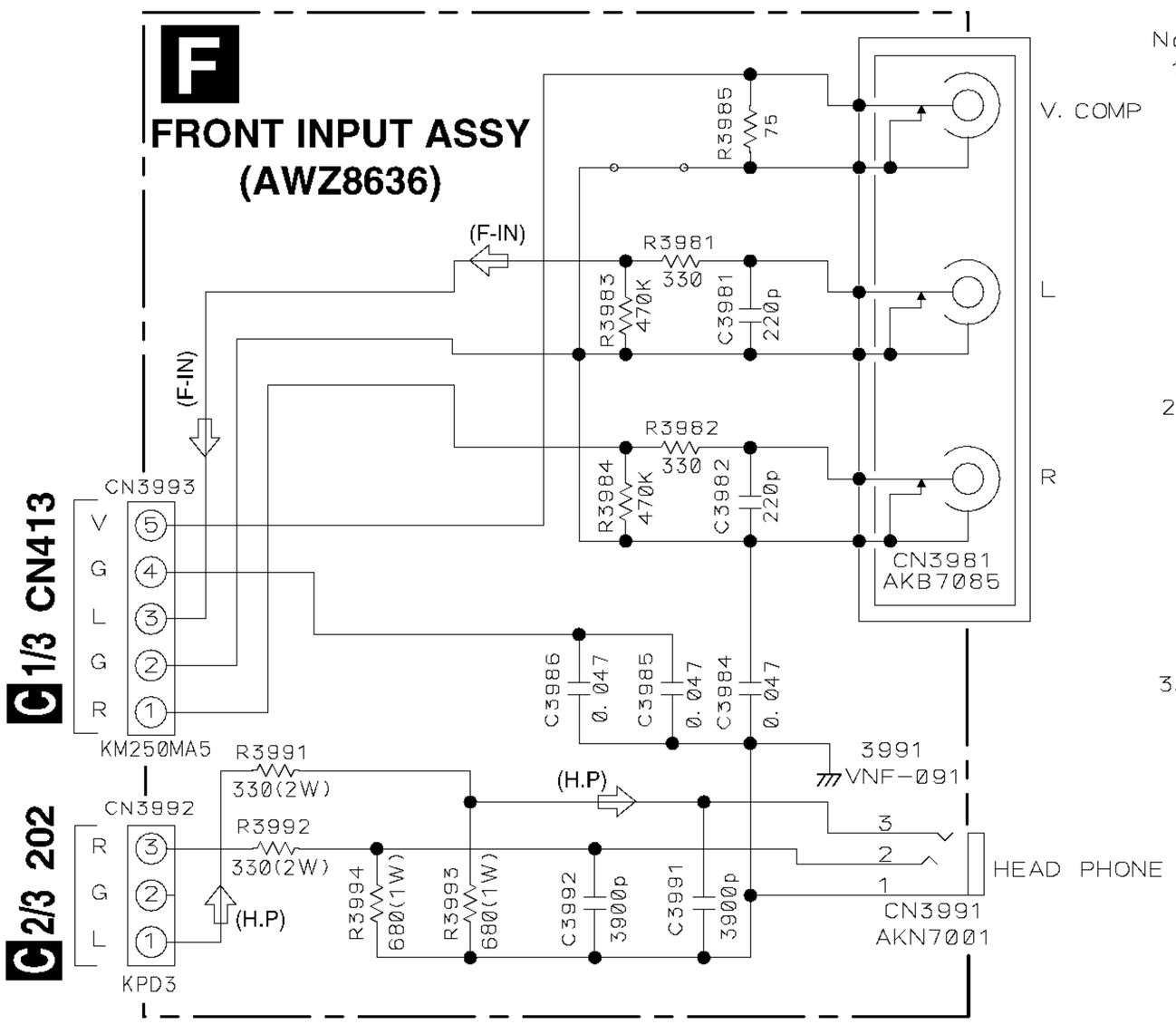

281
V +12V
G (ADG)
A +5V
G (ADG)
REG +B
G (ADG)
REG +B
211
51052-0700
CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE ONLY WITH SAME TYPE NO.491.400 MFD.BY LITTELFUSE INK FOR IC204.
IC204 AEK7024
0.4A
R226 27(3W)
R225 ACN7030
D214 S5688G
D215 S5688G
D216 S5688G
D217 S5688G
D218 S5688G
D219 S5688G
D220 S5688G
D221 S5688G
C221 RCH1107 4700/35
C222 1000/35
C220 3300/16
C224 47/35
C223 47/16
D222 MTZJ5.1C
D213 D15XB20
D212 D15XB20
215
REG
G
G
REG
DIGITAL
AC DG
FL
FL
51052-0800
J2 DYY08-250-2651
AC2
AC1
216
VH
VH
VL
VL
G
G
VL
VH
VH
Vref
51052-1100
J1 DYY11-250-2651
C3/3
DC DET
C2/3 INPUT ASSY (AWZ8633)
⇨ : AUDIO SIGNAL ROUTE
(H.P) ⇨ : AUDIO SIGNAL ROUTE (HEADPHONE)
● NOTE FOR FUSE REPLACEMENT
CAUTION — FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATINGS ONLY.
D TRANS ASSY (AWZ8634)
C291 ACH1237 1/100
R291 4.7(F) NP
292
REG
G
G
REG
DIGITAL
AC DG
FL
FL
51052-0800
FU4 AEK1055 1.25A L250V
H291-H292 AKR1004
FU3 AEK1055 1.25A L250V
H293-H294 AKR1004
C298 0.01 CKPUYF
C299 0.01 CKPUYF
R298 4.7
Y291
291
VH
VH
VL
VL
G
G
VL
VH
VH
Vref
51052-1100
C292 ACH1237 1/100 NP
R292 4.7(F)
FU5 AEK1055 1.25A L250V
H295-H296 AKR1004
R293 4.7(F)
NC293 ACH1237 1/100 NP
TO POWER TRANS FORMER
C2/3 217
CN1202
+BL
+AL
-BL
-AL
-BR
-AR
+BR
+AR
KPD8 1203
C1201 0.047 M
C1202 0.047 M
C1203 0.047 M
C1204 0.047 M
C1205 0.01
C1206 0.01
1201 (2/2) AKE7026
1201 (1/2) AKE7026
SP B
SP A
CHASIS
FRONT SP
J CN155
J28 DYY-04-150-2651
GND (SG)
GND (SG)
GND (CG)
GND
51052-0400
E FRONT SP ASSY (AWZ8631)

3.5 INPUT ASSY (3/3), FRONT INPUT ASSY AND REG.1 ASSY



: AUDIO SIGNAL ROUTE
(H.P) : AUDIO SIGNAL ROUTE (HEADPHONE)
(F-IN) : AUDIO SIGNAL ROUTE (F.IN)





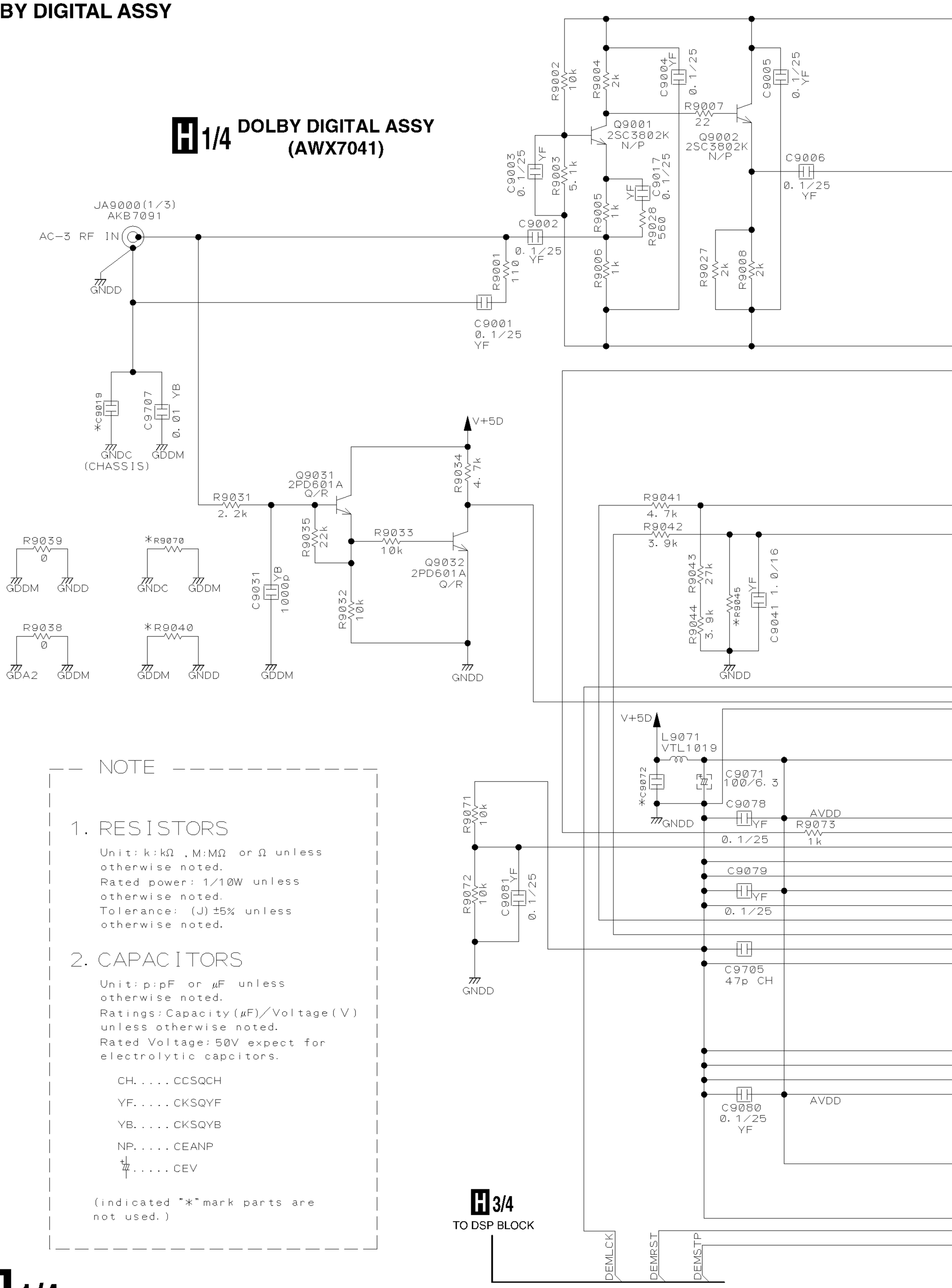
Noted
1.Resistors
Indicated in ohm 1/4W
tolerance ±5%
unless otherwise noted
K:Kohm , M:Mohm
F : Non flammable type
Fu: Non flammable quick open type
FL: Non flammable type
(RD1/4LMF***J type)

2.Capacitors
Indicated in capacity(uF)/voltege(V)
unless otherwise noted
p=pF
Indication without voltae is 50V
except
electroiytic capacitor
NL=CEANL¯ , TX=CFTXA¯

3.Diodes
Other diodes(not noted)are 1SS252

3.6 DOLBY DIGITAL ASSY

H 1/4 DOLBY DIGITAL ASSY (AWX7041)



— — NOTE — — — — — — — — — — — —

1. RESISTORS

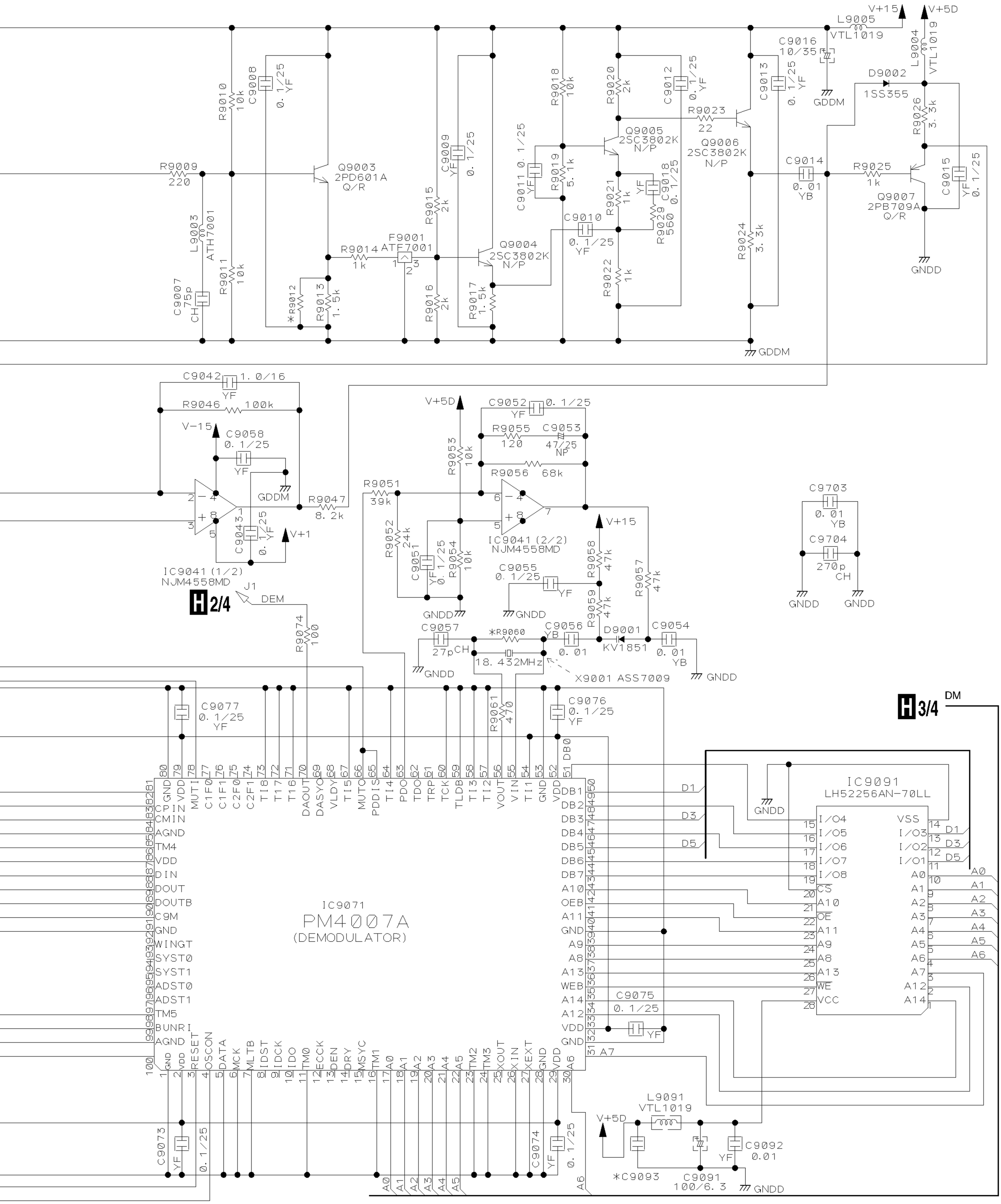
Unit: k:kΩ , M:MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

2. CAPACITORS

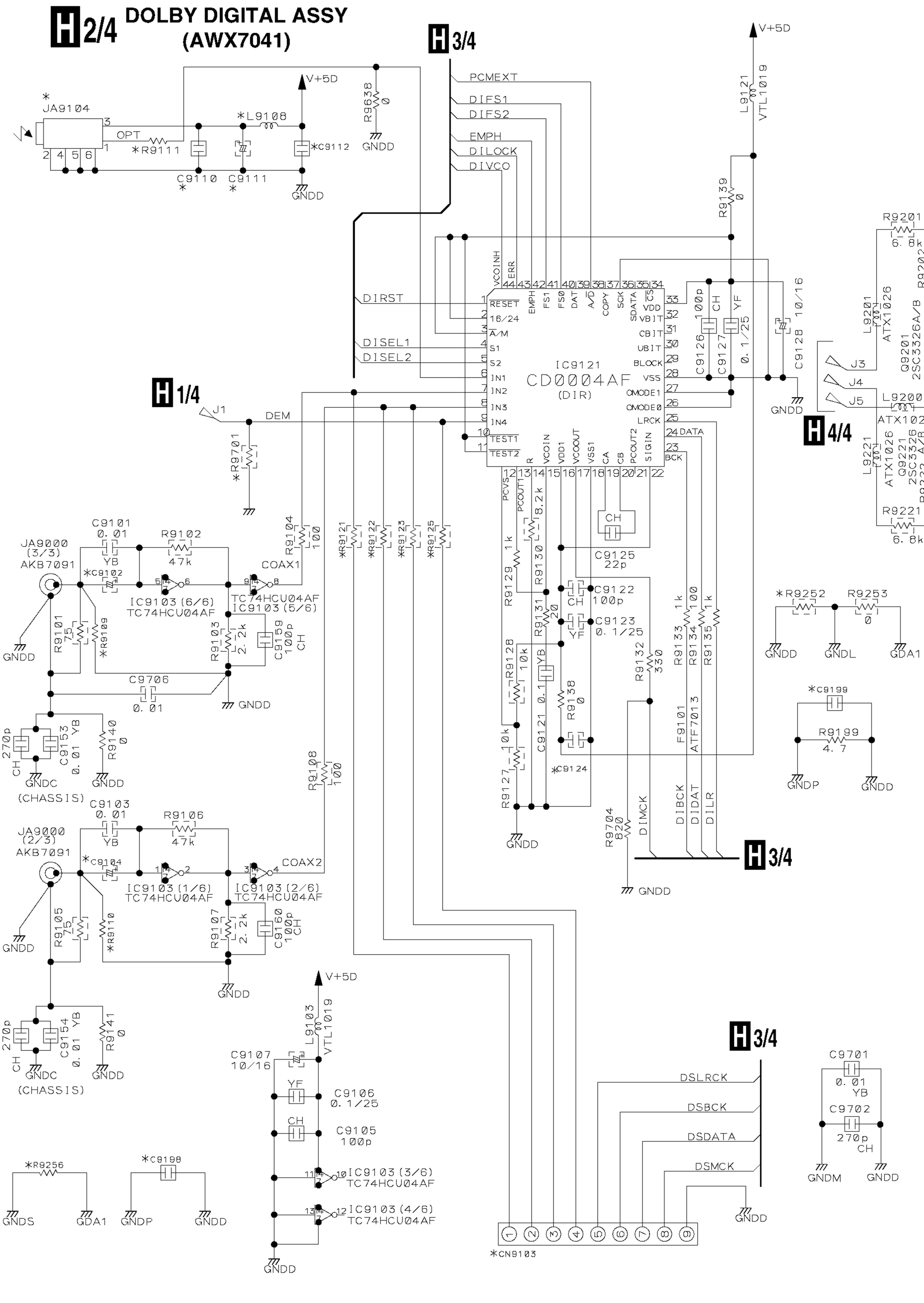
Unit: p:pF or μF unless otherwise noted.
Ratings: Capacity (μF) / Voltage (V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capcitors.

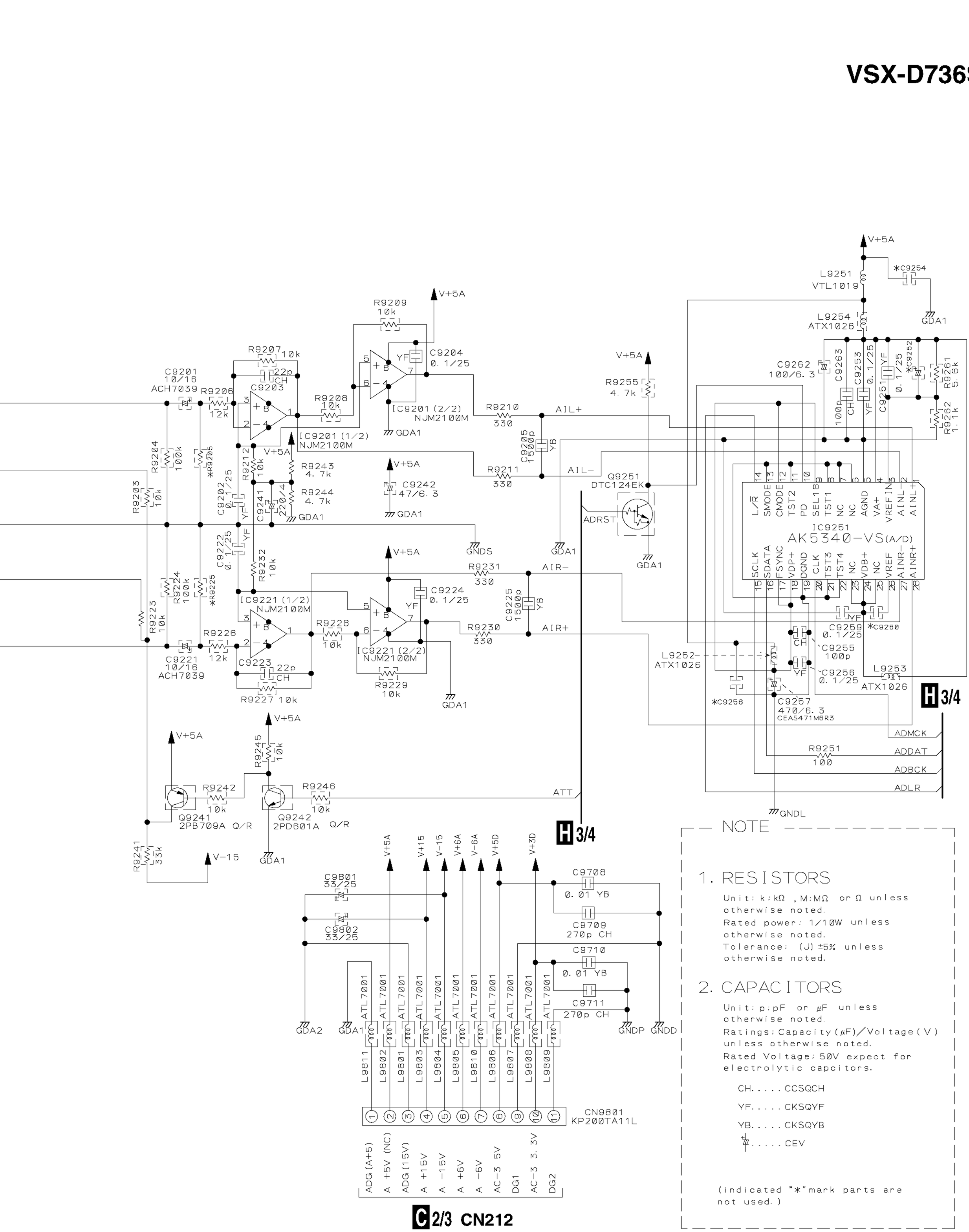
CH. . . . . CCSQCH
YF. . . . . CKSQYF
YB. . . . . CKSQYB
NP. . . . . CEANP
. . . . . CEV

(indicated "*" mark parts are not used.)


V+15
V+5D
L9005
VTL1019
L9004
VTL1019
C9016
10/35
C9013
0.1/25
YF
GDDM
D9002
1SS355
R9026
3.3k
R9018
10k
R9020
2k
C9012
0.1/25
YF
R9023
22
Q9005
2SC3802K
N/P
Q9006
2SC3802K
N/P
C9011 0.1/25
YF
R9019
5.1k
C9010
0.1/25
YF
R9021
1k
C9018
0.1/25
R9029
560
R9024
3.3k
R9022
1k
C9014
0.01
YB
R9025
1k
Q9007
2PB709A
Q/R
C9015
0.1/25
YF
GNDD
R9009
220
Q9003
2PD601A
Q/R
L9003
ATH7001
C9007
75p
CH
R9010
10k
C9008
0.1/25
YF
R9011
10k
F9001
ATF7001
R9014
1k
*R9012
R9013
1.5k
C9009
YF
0.1/25
R9015
2k
R9016
2k
R9017
1.5k
Q9004
2SC3802K
N/P
GDDM
C9042
1.0/16
YF
R9046
100k
V-15
C9058
0.1/25
YF
GDDM
R9047
8.2k
C9043
1/25
YF
0.1
V+1
IC9041 (1/2)
NJM4558MD
H 2/4
J1
DEM
R9074
100
V+5D
C9052
0.1/25
YF
R9055
120
C9053
47/25
NP
R9056
68k
R9053
10k
R9051
39k
R9052
24k
C9051
YF
0.1/25
R9054
10k
IC9041 (2/2)
NJM4558MD
V+15
R9058
47k
R9057
47k
R9059
47k
C9055
0.1/25
YF
GNDD
C9057
27pCH
*R9060
C9056
YB
0.01
D9001
KV1851
C9054
0.01
YB
18.432MHz
X9001 ASS7009
GNDD
C9703
0.01
YB
C9704
270p
CH
GNDD
GNDD
C9077
0.1/25
YF
R9061
470
C9076
0.1/25
YF
H 3/4
DM
IC9071
PM4007A
(DEMODULATOR)
GND
VDD
MUTI
C1F0
C1F1
C2F0
C2F1
TI8
T17
T16
DAOUT
DASYO
VLDY
TI5
MUTO
PDDIS
TI4
PDO
TDO
TRP
TCK
TLDB
TI3
TI2
VOUT
VIN
TI1
CPIN
CMIN
AGND
TM4
DIN
DOUT
DOUTB
C9M
WINGT
SYST0
SYST1
ADST0
ADST1
TM5
BUNRI
RESET
OSCON
DATA
MCK
MLTB
IDST
IDCK
IDO
TM0
ECCK
DEN
DRY
MSYC
TM1
DB0
DB1
DB2
DB3
DB4
DB5
DB6
DB7
A10
OEB
A11
A9
A8
A13
WEB
A14
A12
A7
A6
A5
A4
A3
A2
A1
A0
IC9091
LH52256AN-70LL
I/O4
I/O5
I/O6
I/O7
I/O8
CS
A10
OE
A11
A9
A8
A13
WE
VCC
VSS
I/O3
I/O2
I/O1
A0
A1
A2
A3
A4
A5
A6
A12
A14
C9075
0.1/25
YF
C9073
YF
0.1/25
C9074
YF
0.1/25
L9091
VTL1019
V+5D
*C9093
C9091
100/6.3
C9092
0.01
YF
GNDD

H 2/4 DOLBY DIGITAL ASSY (AWX7041)





NOTE

1. RESISTORS

Unit: k:kΩ , M:MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

2. CAPACITORS

Unit: p:pF or μF unless otherwise noted.
Ratings: Capacity (μF)/Voltage (V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capcitors.

CH. . . . . CCSQCH
YF. . . . . CKSQYF
YB. . . . . CKSQYB
⏚. . . . . CEV

(indicated "*" mark parts are not used.)

H 3/4 DOLBY DIGITAL ASSY (AWX7041)

NOTE

1. RESISTORS

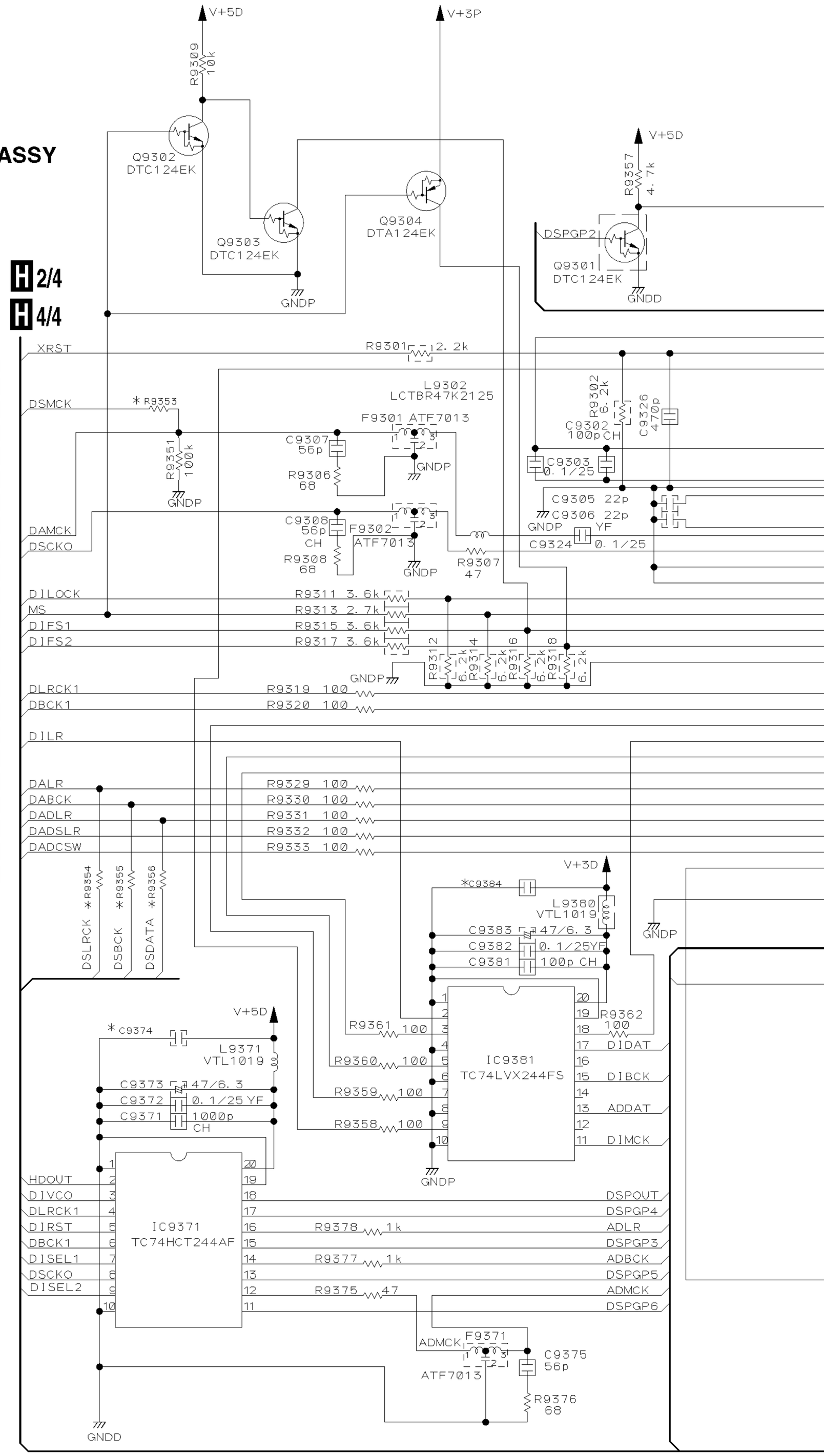
Unit: k:kΩ , M:MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J) ±5% unless otherwise noted.

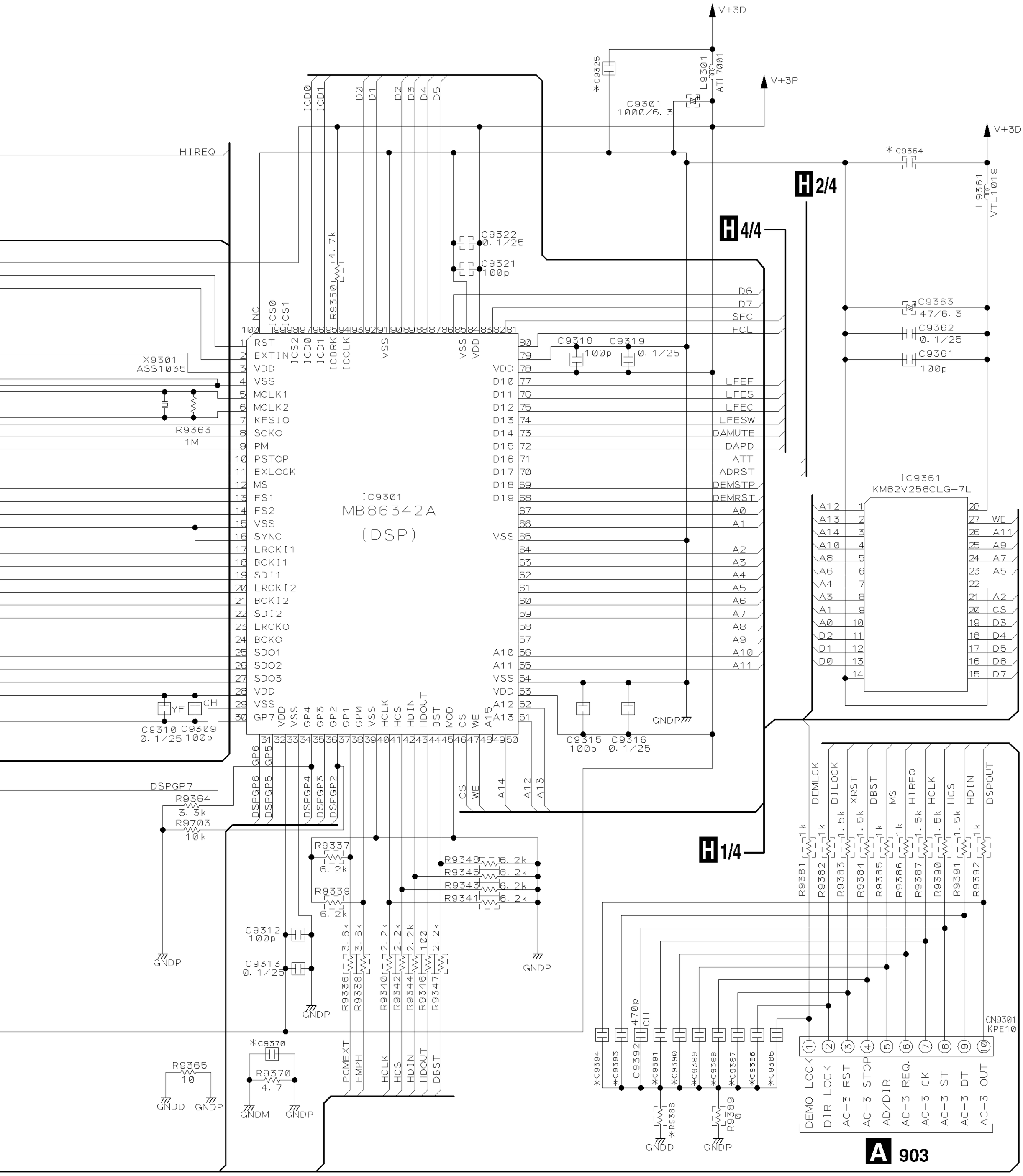
2. CAPACITORS

Unit: p:pF or μF unless otherwise noted.
Ratings: Capacity (μF)/Voltage (V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capcitors.

CH. . . . . CCSQCH
YF. . . . . CKSQYF
YB. . . . . CKSQYB
NP. . . . . CEANP
. . . . . CEV

(indicated "*" mark parts are not used.)

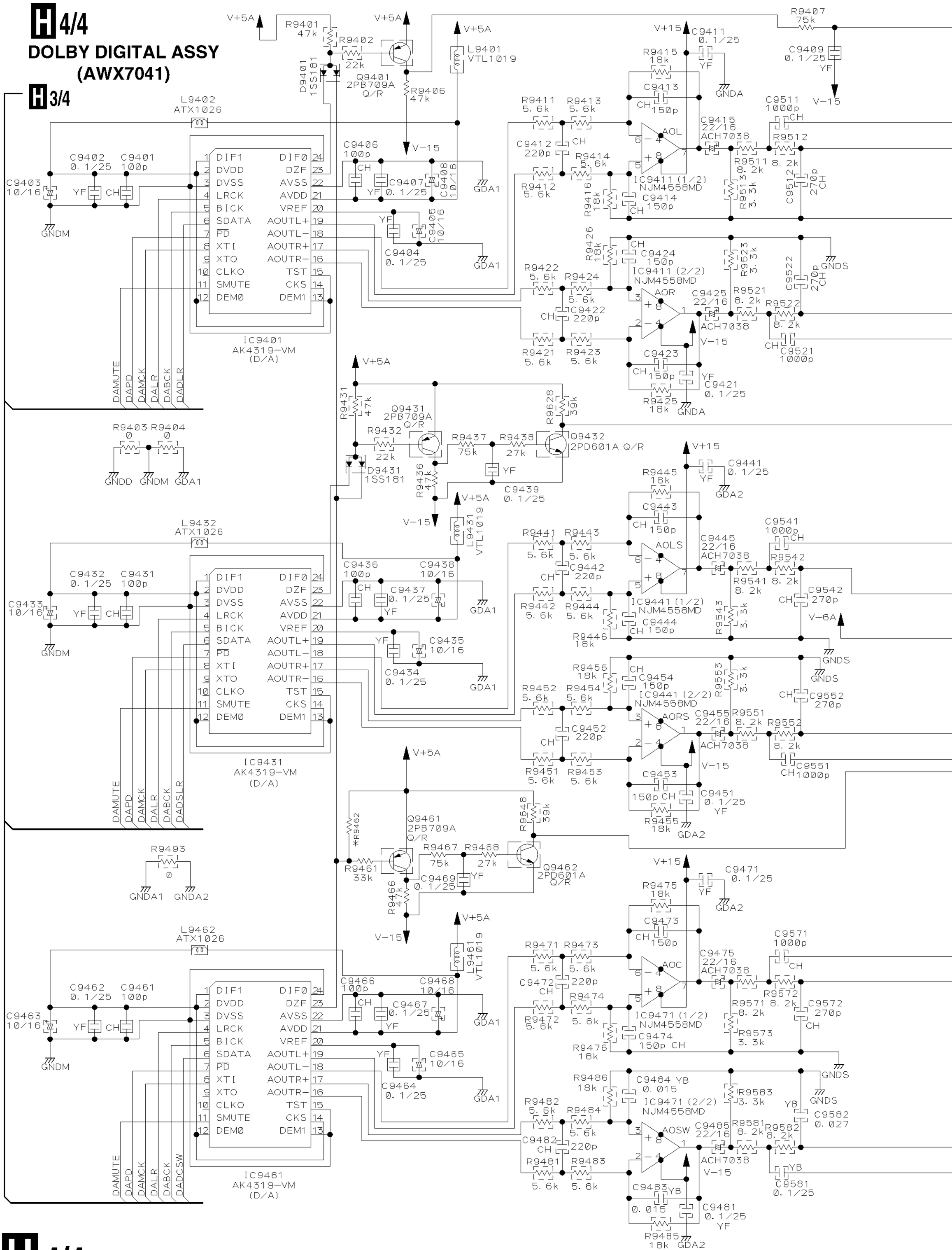


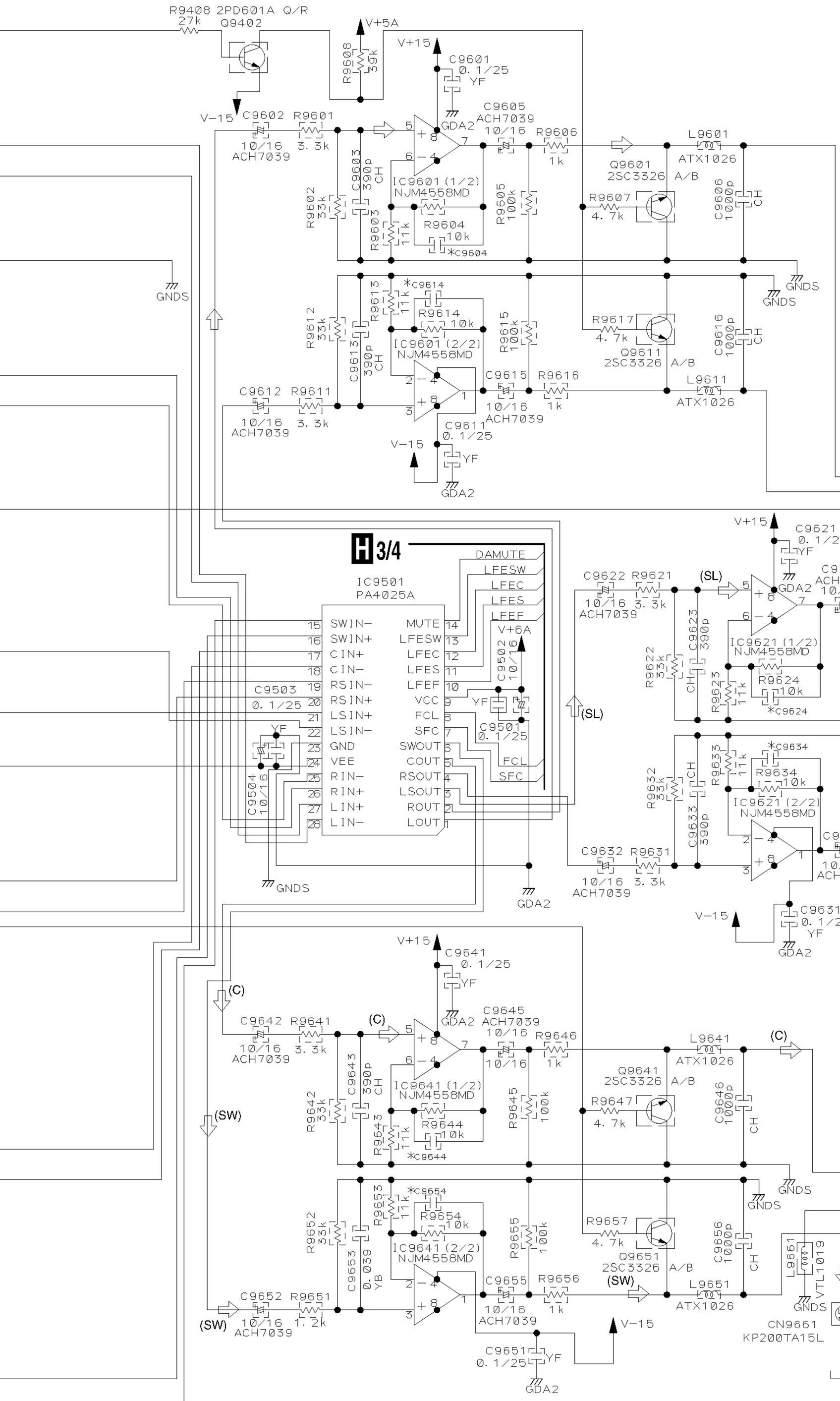

V+3D
V+3P
*C9325
L9301
ATL7001
C9301
1000/6.3
ICD0
ICD1
D0
D1
D2
D3
D4
D5
HIREQ
C9322
0.1/25
C9321
100p
R9350
4.7k
NC
ICS0
ICS1
D6
D7
SFC
FCL
C9318
100p
C9319
0.1/25
X9301
ASS1035
R9363
1M
RST
EXTIN
VDD
VSS
MCLK1
MCLK2
KFSIO
SCKO
PM
PSTOP
EXLOCK
MS
FS1
FS2
SYNC
LRCKI1
BCKI1
SDI1
LRCKI2
BCKI2
SDI2
LRCKO
BCKO
SDO1
SDO2
SDO3
VDD
VSS
GP7
ICICLK
ICBRK
ICCLK
VSS
VSS
VDD
VDD
D10
D11
D12
D13
D14
D15
D16
D17
D18
D19
VSS
A10
A11
VSS
VDD
A12
A13
LFEF
LFES
LFEC
LFESW
DAMUTE
DAPD
ATT
ADRST
DEMSTP
DEMRST
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
IC9301
MB86342A
(DSP)
YF
CH
C9310
0.1/25
C9309
100p
C9315
100p
C9316
0.1/25
GNDP
GP6
GP5
GP4
GP3
GP2
GP1
GP0
VSS
HCLK
HCS
HDIN
HDOUT
BST
MOD
CS
WE
A15
A14
A12
A13
DSPGP7
R9364
3.3k
R9703
10k
DSPGP6
DSPGP5
DSPGP4
DSPGP3
DSPGP2
R9337
6.2k
R9339
6.2k
R9348
6.2k
R9345
6.2k
R9343
6.2k
R9341
6.2k
C9312
100p
C9313
0.1/25
R9336
3.6k
R9338
3.6k
R9340
2.2k
R9342
2.2k
R9344
2.2k
R9346
100
R9347
2.2k
GNDP
PCMEXT
EMPH
HCLK
HCS
HDIN
HDOUT
DBST
*C9370
R9370
4.7
R9365
10
GNDD
GNDP
GNDM
GNDP
H 2/4
H 4/4
H 1/4
*C9364
L9361
VTL1019
C9363
47/6.3
C9362
0.1/25
C9361
100p
IC9361
KM62V256CLG-7L
A12
A13
A14
A10
A8
A6
A4
A3
A1
A0
D2
D1
D0
WE
A11
A9
A7
A5
CS
D3
D4
D5
D6
D7
R9381
1k
R9382
1k
R9383
1.5k
R9384
1.5k
R9385
1k
R9386
1k
R9387
1.5k
R9390
1.5k
R9391
1.5k
R9392
1k
DEMLCK
DILOCK
XRST
DBST
MS
HIREQ
HCLK
HCS
HDIN
DSPOUT
*C9394
*C9393
C9392
470p
CH
*C9391
*C9390
*C9389
*C9388
*C9387
*C9386
*C9385
*R9388
R9389
0
CN9301
KPE10
DEMO LOCK
DIR LOCK
AC-3 RST
AC-3 STOP
AD/DIR
AC-3 REQ.
AC-3 CK
AC-3 ST
AC-3 DT
AC-3 OUT
A 903

H 4/4

DOLBY DIGITAL ASSY (AWX7041)

H 3/4





NOTE

1. RESISTORS

Unit: k:kΩ .M:MΩ or Ω unless otherwise noted.
Rated power: 1/10W unless otherwise noted.
Tolerance: (J)±5% unless otherwise noted.

2. CAPACITORS

Unit: p:pF or μF unless otherwise noted.
Ratings: Capacity(μF)/Voltage(V) unless otherwise noted.
Rated Voltage: 50V expect for electrolytic capcitors.

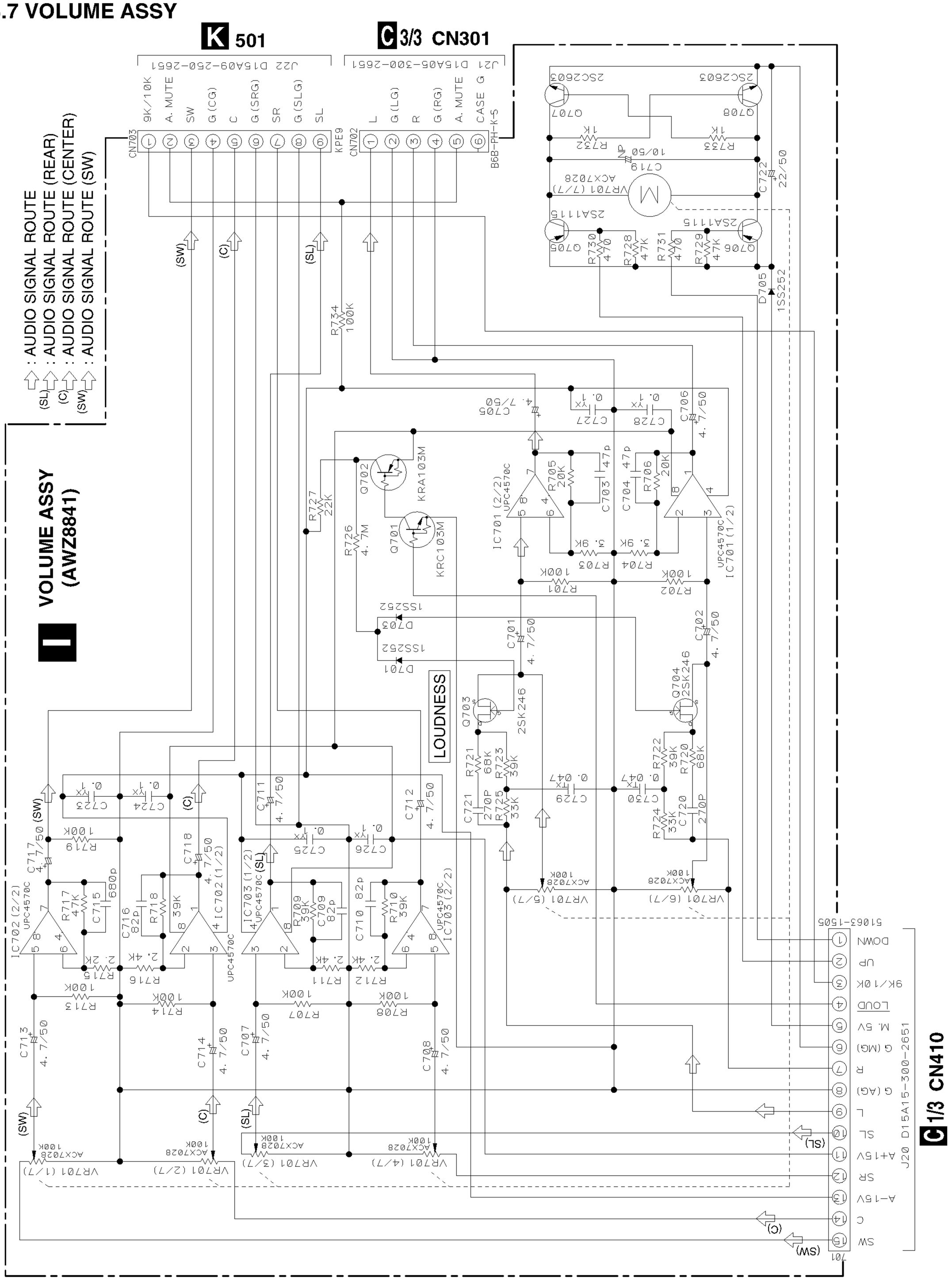
CH.....CCSQCH
YF.....CKSQYF
YB.....CKSQYB
NP.....CEANP
.....CEV

(indicated "*" mark parts are not used.)

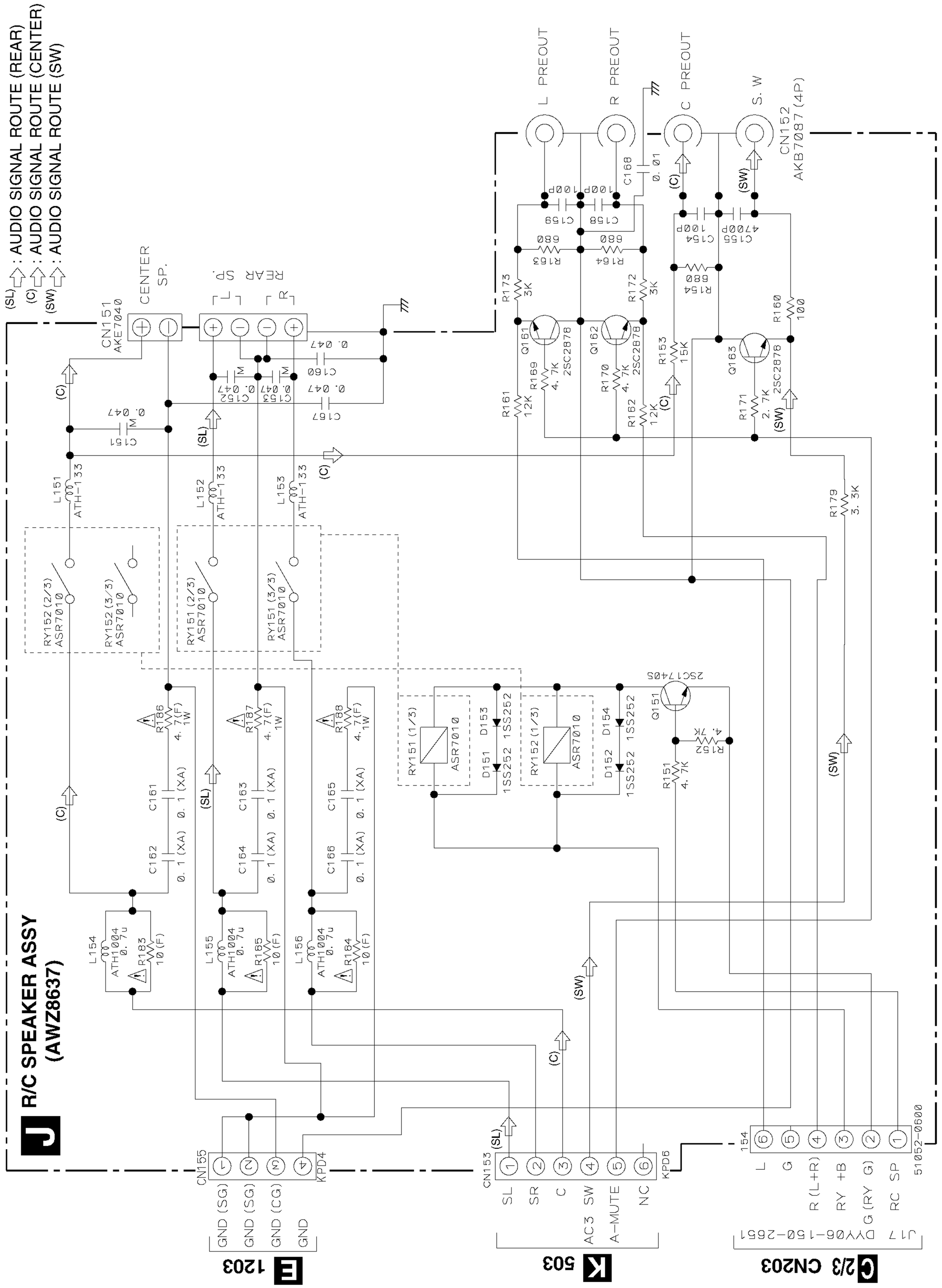
: AUDIO SIGNAL ROUTE
(SL) : AUDIO SIGNAL ROUTE (REAR)
(C) : AUDIO SIGNAL ROUTE (CENTER)
(SW) : AUDIO SIGNAL ROUTE (SW)

H 4/4

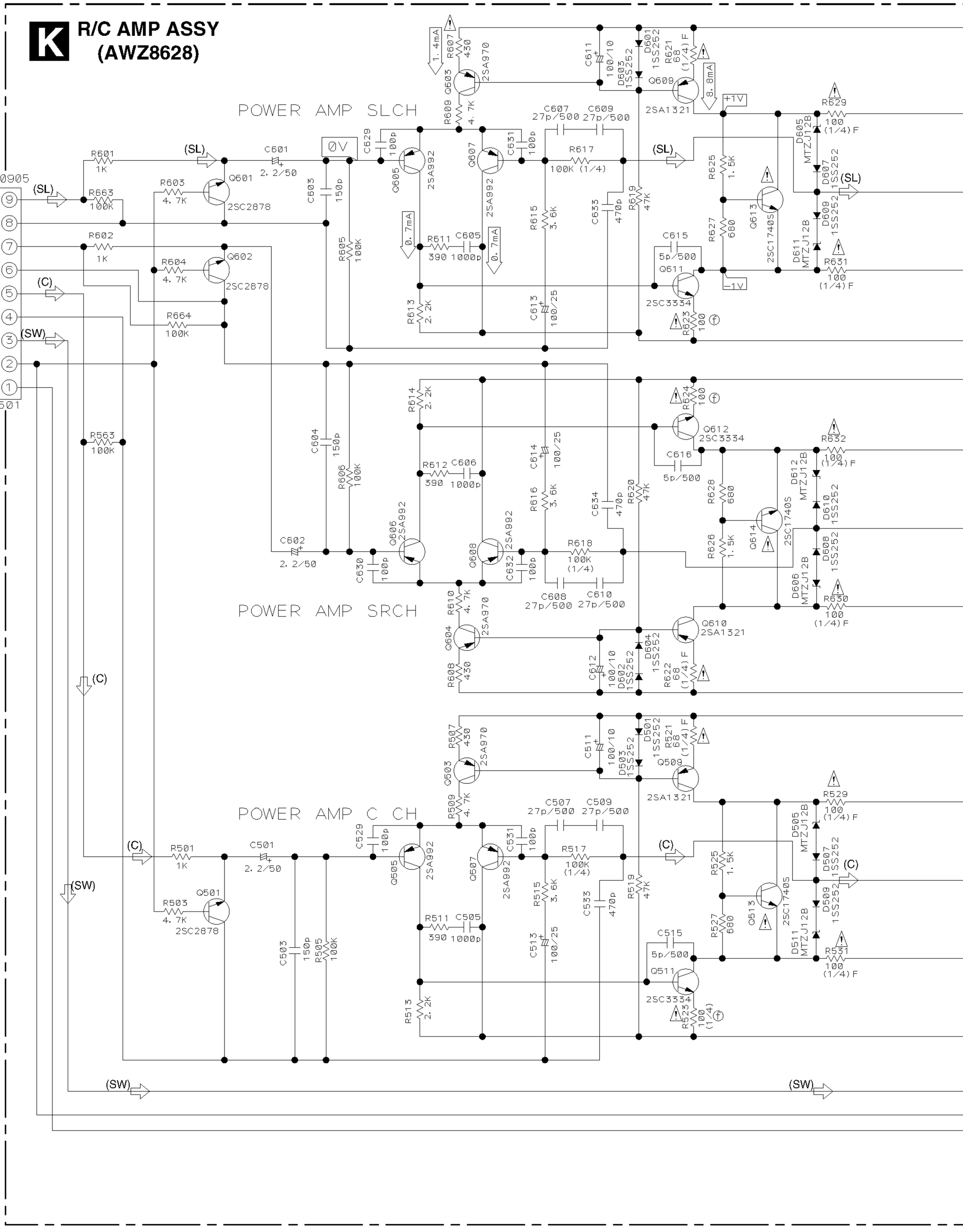
3.7 VOLUME ASSY



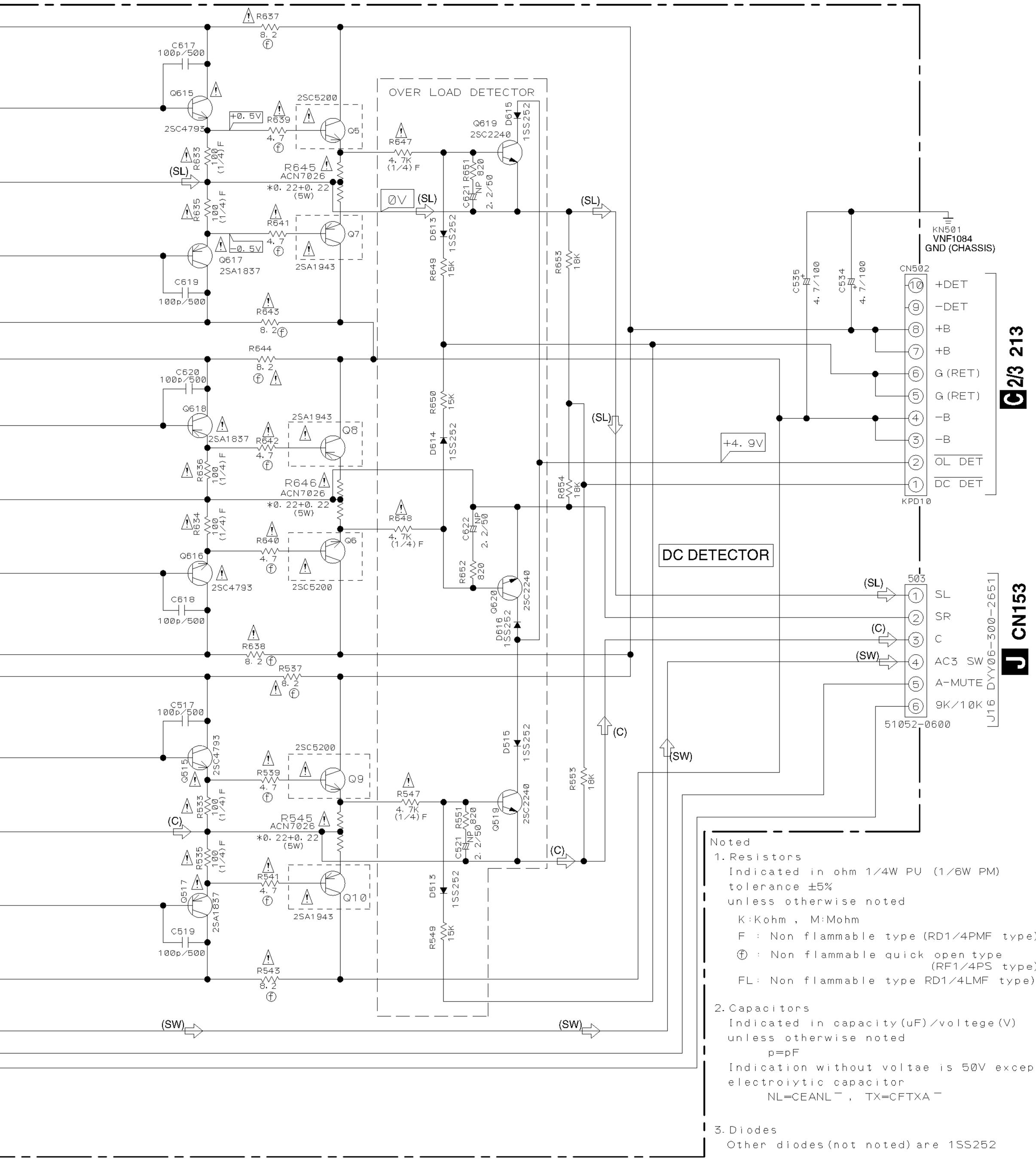
3.8 R/C SPEAKER ASSY



3.9 R/C AMP ASSY



(SL) : AUDIO SIGNAL ROUTE (REAR)
(C) : AUDIO SIGNAL ROUTE (CENTER)
(SW) : AUDIO SIGNAL ROUTE (SW)



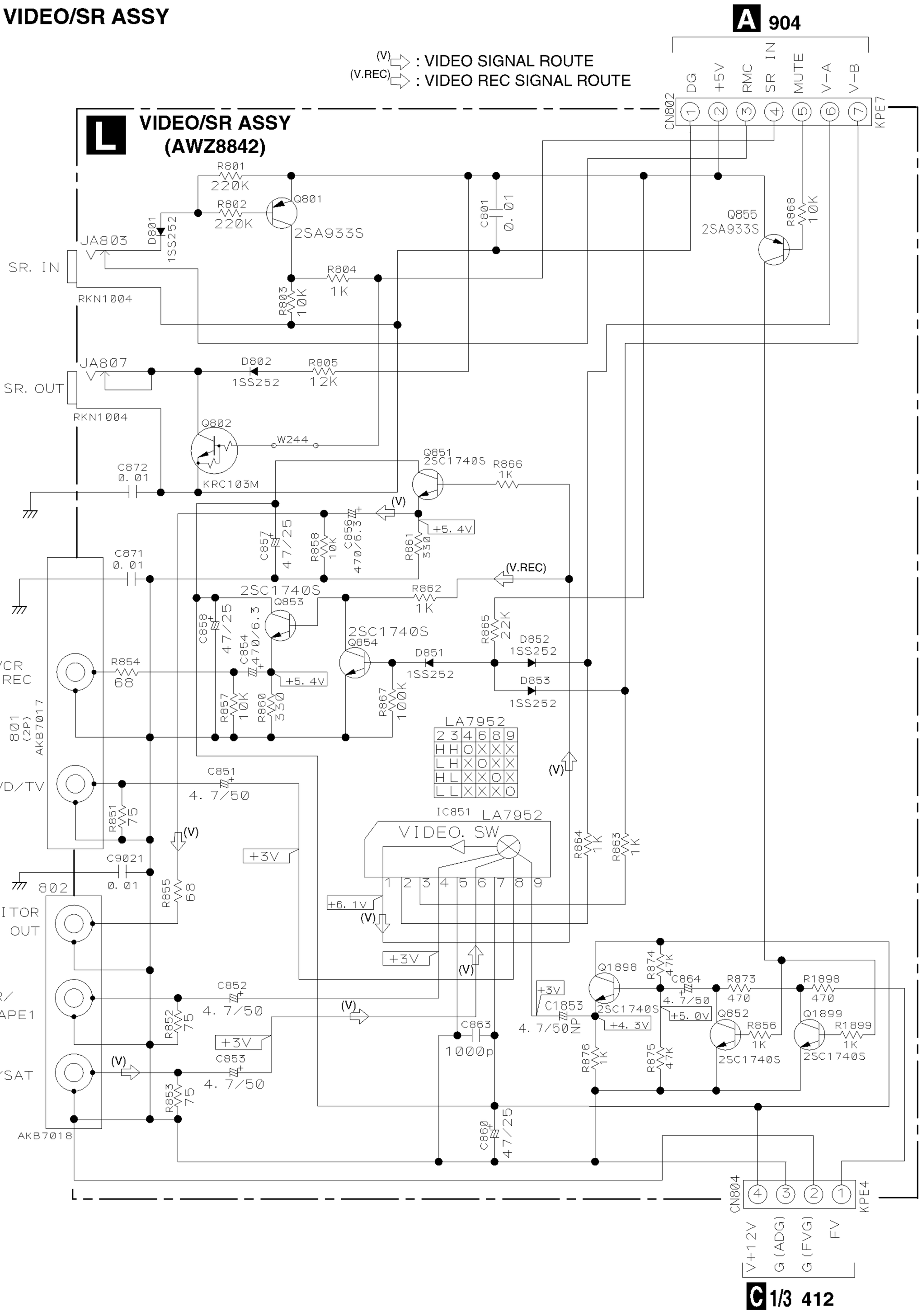
Noted

1. Resistors
   Indicated in ohm 1/4W PU (1/6W PM)
   tolerance ±5%
   unless otherwise noted
   K:Kohm , M:Mohm
   F : Non flammable type (RD1/4PMF type)
   (f) : Non flammable quick open type (RF1/4PS type)
   FL: Non flammable type RD1/4LMF type)

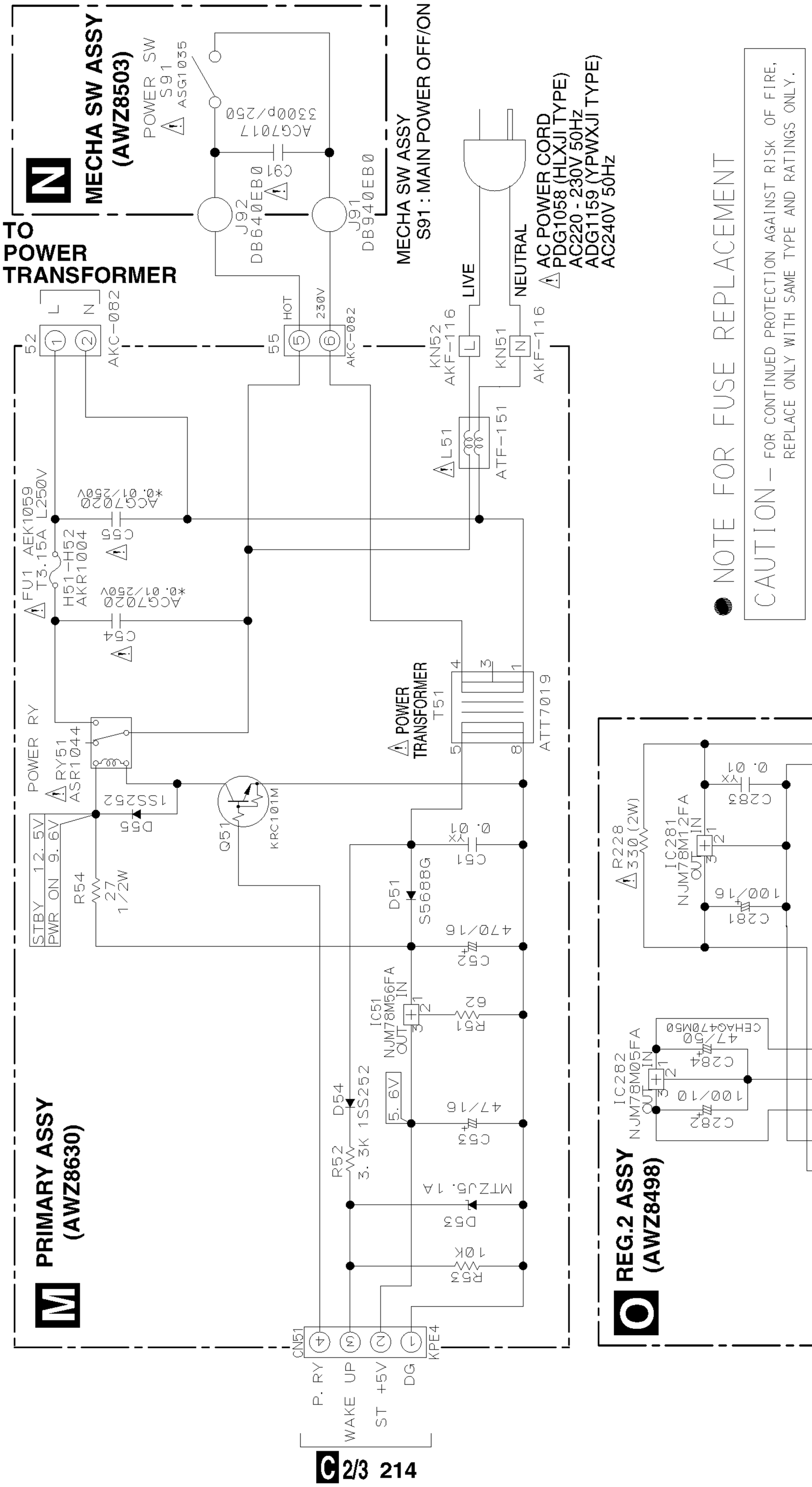
2. Capacitors
   Indicated in capacity(uF)/voltege(V)
   unless otherwise noted
   p=pF
   Indication without voltae is 50V except electroiytic capacitor
   NL=CEANL⁻, TX=CFTXA⁻

3. Diodes
   Other diodes(not noted) are 1SS252

3.10 VIDEO/SR ASSY

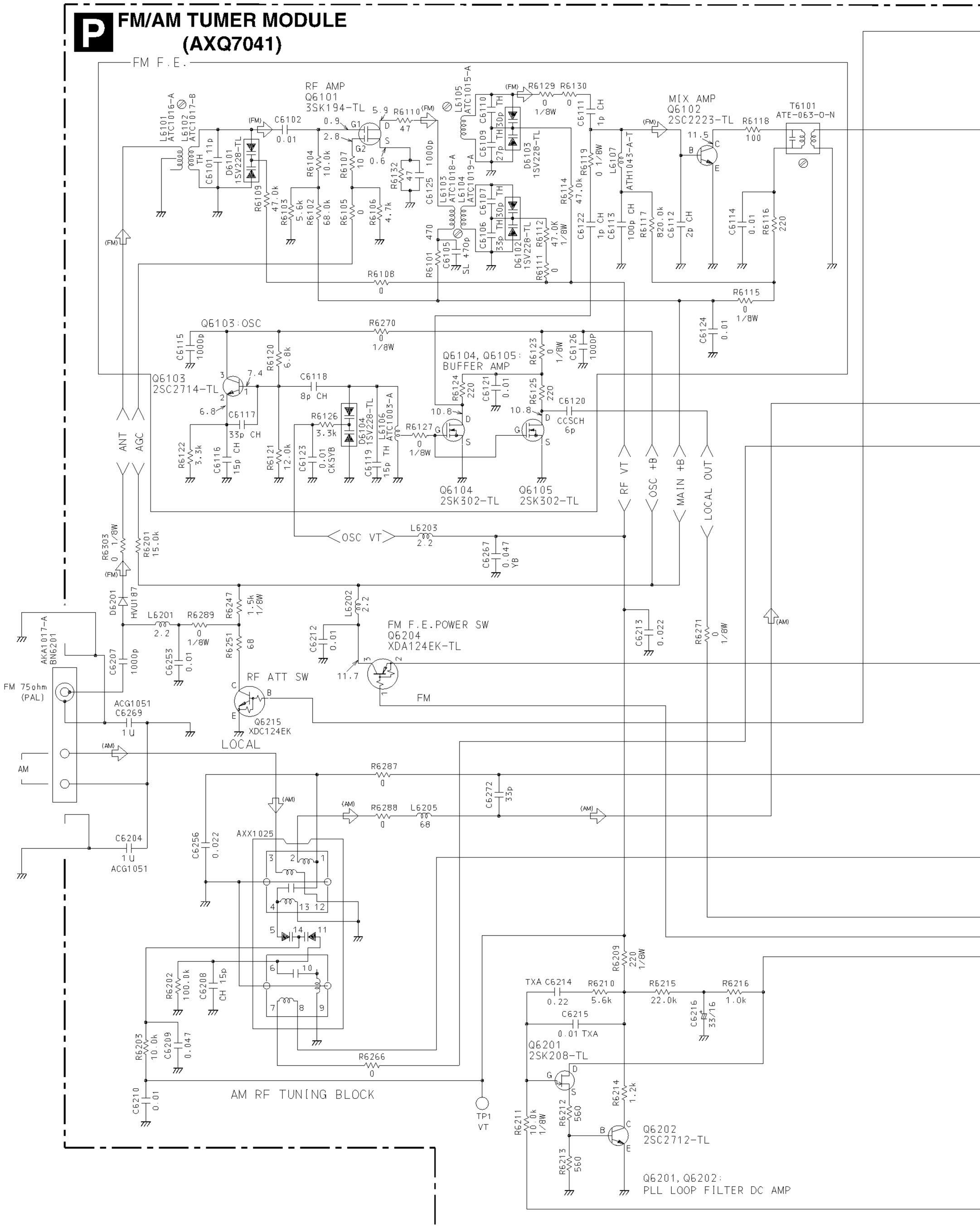


3.11 PRIMARY ASSY, MECHA SW ASSY AND REG.2 ASSY



3.12 FM/AM TUNER MODULE

P FM/AM TUMER MODULE (AXQ7041)



SIGNAL ROUTE
(TX): TUNER AUDIO SIGNAL ROUTE
(AM): AM SIGNAL ROUTE
(FM): FM SIGNAL ROUTE

Q6124 : IF AMP
IF OUT
R6268 0 1/8W
R6252 22
F6203 ATF-119
R6219 470
R6220 6.8K
Q6214 2SC2714-TL
R6217 560
R6218 390
R6221 330
F6204 ATF-107
R6222 220
C6226 0.022
R6272 0 1/8W
R6273 0 1/8W
C6254 0.1 ACG1051
R6274 0
Q2618 : AMP
R6277 0
L6209 220
R6232 130.0k
R6234 2.2k
F6205 ATF1152
C6246 10/50 CEEA
R6233 51.0k
R6235 1.3k
C6247 1200p
R6236 4.7k
C6248 10/50 CEEA
Q6218 2SC2712-TL
IC6201 FM/AM IF DETECTION STEREO DECODER
FM SD ADJ.
VR6201 ACP1056-A-T 10k
CCSCH
C6227 47/25
C6228 YB 4700p
R6293 0
C6229 1/8W 1000p
YB C6230 0.027
C6232 0.027 CKSYB
R6301 0
X6201 ASS1066
R6223 1.5k
C6231 10/50
C6233 10/50
R6238 1.2k
R6237 1.2k 1/BW
C6250 4.7/35 CEJA
C6249 4.7/35
R6240 10k
C6252 YB 5600p
R6244 100 1/BW
R6283 0 1/8W
R6239 10k 1/8W
C6251 YB 5600p
R6243 100 1/BW
R6292 0
IC6201 LA1836M IF+MPX
FM-IN AMIF-I FM-BYP REG AMIF-O GND TU-IND ST-IND FM-DET VCC MUTE AMSDAD AM-SM AM/FM MONO
T-meter TP3
T-meter TP2
CEJA C6261 1.0/50
C6255 0.022
R6230 56.0k
R6269 0 1/8W
C6224 CEEA 100/25
C6225 0.047
C6262 10/50
C6241 0.047
R6307 0
C6263 0.047 CKS
R6228 56.0k
X6202 ATF1027
R6227 0
R6224 75.0K
TP4 S-meter
VRTB6VS223 VR6202 22k
C6238 10/16 CEJA
R6280 0
C6237 0.047
MONO
FORCED MONO DRIVE
Q6217
XDC124EK-TL
C6234, C6236 : ACG1051-A
C6235 : ACG1052-A
R6265 0
R6231 470
C6223 0.01 CKS
F6202 ATF1156
L6207
ATE1013-B
R6279 0
R6229 3.9k
C6242 0.022
R629B 33.0k
C6239 0.022
R6226 3.3k
R6225 3.0k
C6236 1u
C6235 0.22u
C6234 1u ACG1051
R6275 0 1/8W
R6299 1.0k RD1/8
R6300 1.0k RD1/8
R6302 0 1/8W
R627B 0 1/8W
R6284 0 1/8W
RIPPLE FILTER
Q6203
2SC2235-T
R6282 0
R6297 0 1/8W
R6246 560
C6244 47/16
R6291 1.3k
C6245 47/16
C6243 47/16
L620B 2.2
C6220 0.1
C6219 47/10
C6217 33/16
C621B 0.01
R6276 0 1/8W
IC6202 LM7001J PLL
IC6202 : PLL IC
GND PD VDD VDD FMOSC AMOSC FM
CE CL DA LW MW
X6203 ASS1042
C6221 15p CH
C6222 15p CH
R6294 0 1/8W
R6295 0
CN6201 KP2001A14L
RDS LOCAL CE DA CL TR TG TL MONO MUTE TUNE +12V +5V STEREO
R6248 1.0k
R6249 1.0k
R6250 1.0k
C6264 0.01
R6253 10.0k
R6254 10.0k
R6281 0

C 1/3 CN407

4. PCB CONNECTION DIAGRAM

4.1 R/C SPEAKER ASSY, FRONT SP ASSY AND MECHA SW ASSY

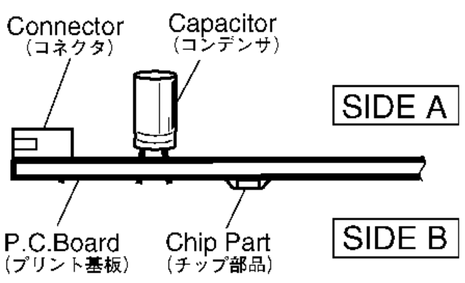
NOTE FOR PCB DIAGRAMS

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol in PCB Diagrams	Symbol in Schematic Diagrams	Part Name
B C E	B C E B C E	Transistor
B C E	B C E B C E	Transistor with resistor
D G S	D G S D G S	Field effect transistor
		Resistor array
		3-terminal regulator

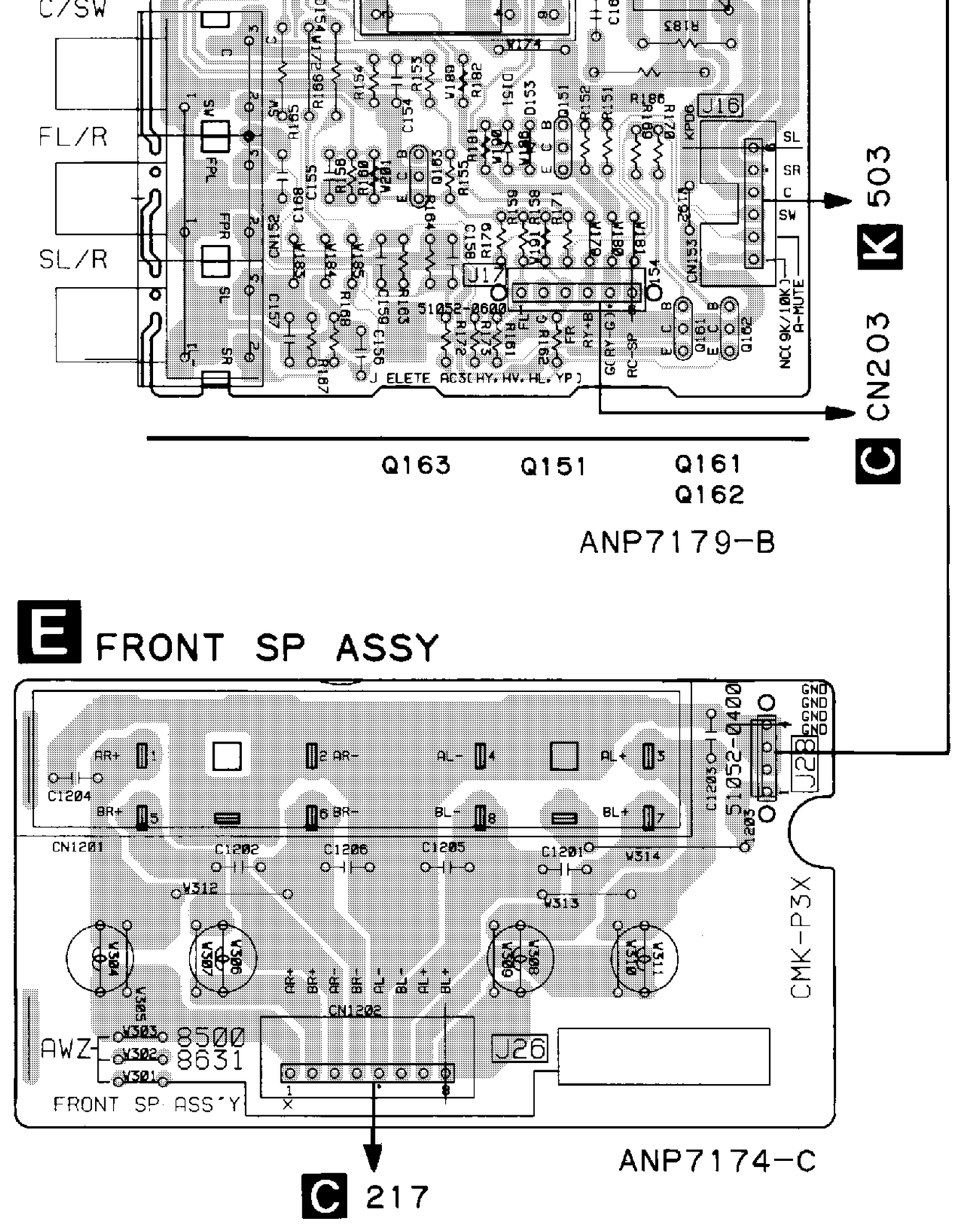
3. The parts mounted on this PCB include all necessary parts for several destination.
   For further information for respecitve destinations, be sure to check with the schematic diagram.

4. Viewpoint of PCB diagrams

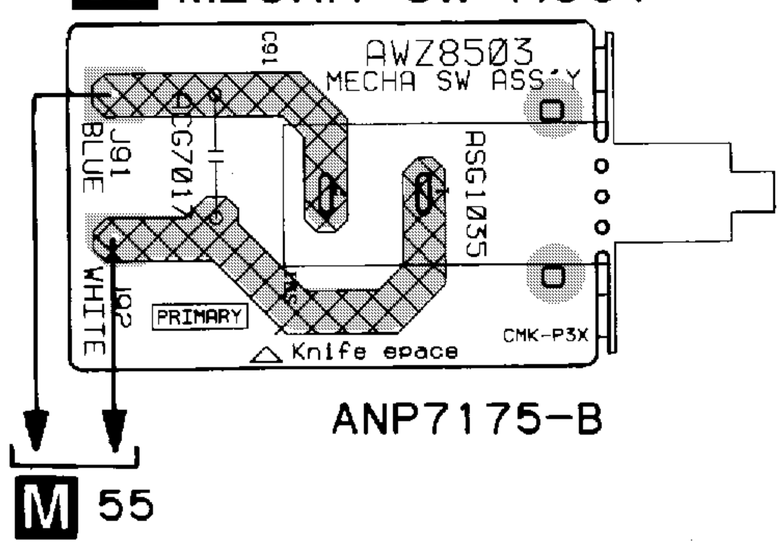


SIDE A

J R/C SPEAKER ASSY

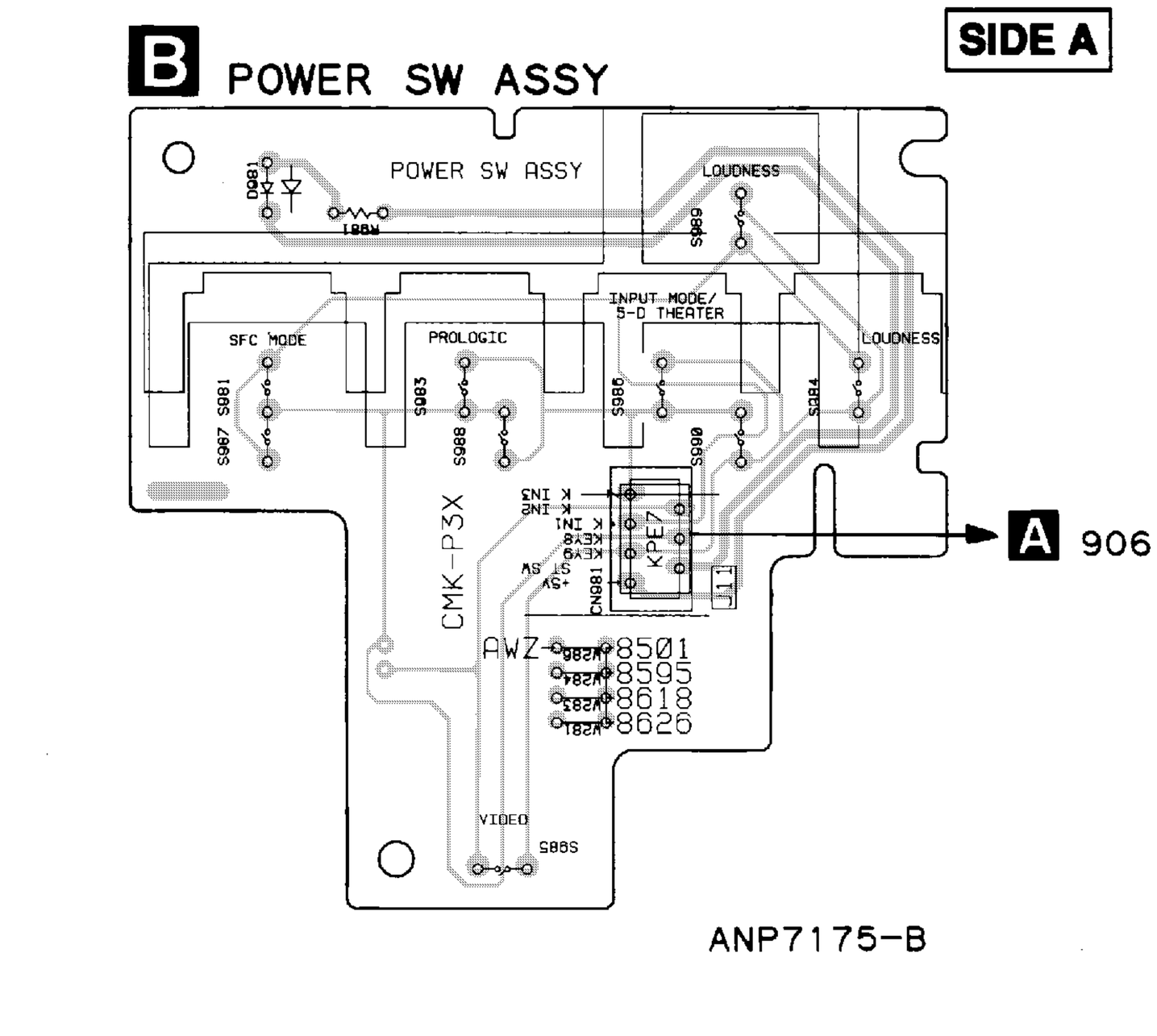


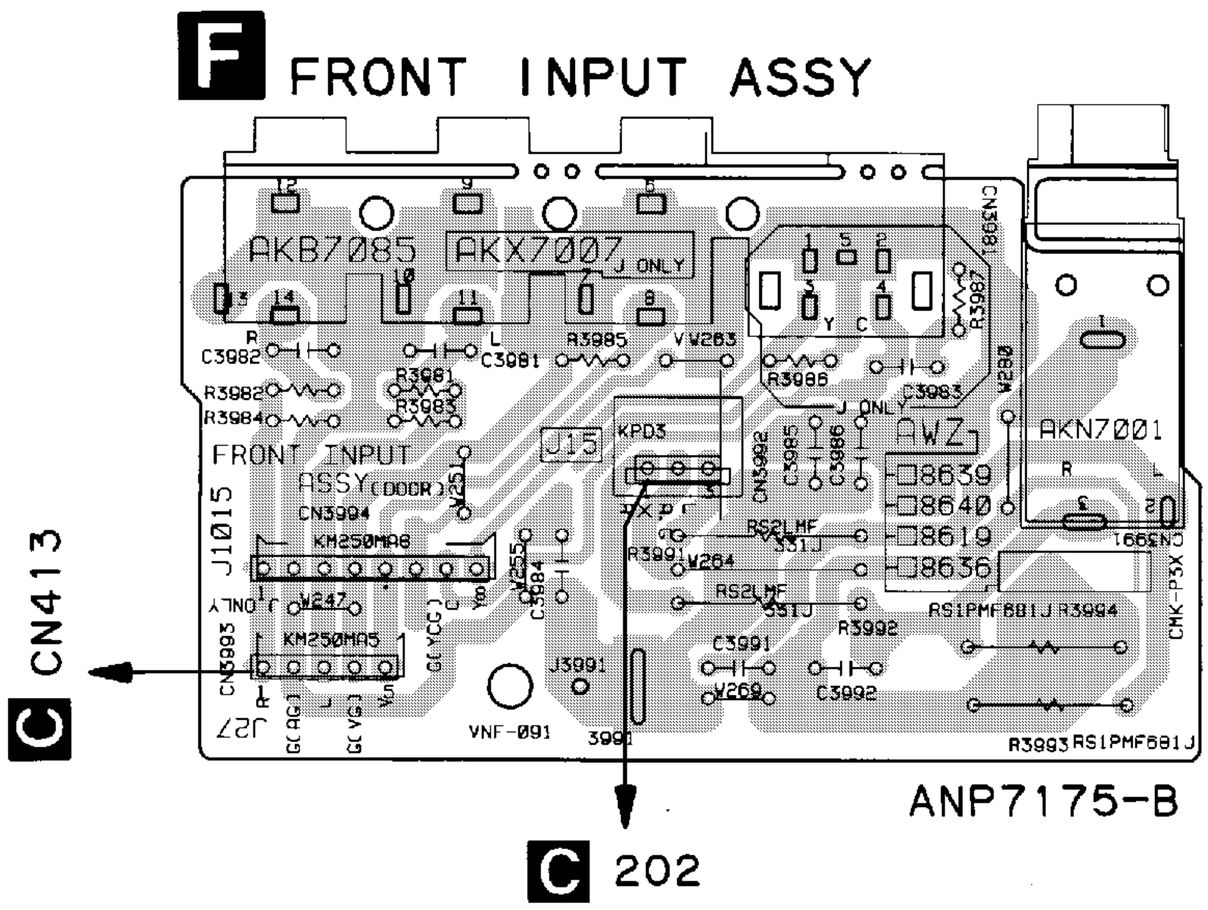
N MECHA SW ASSY



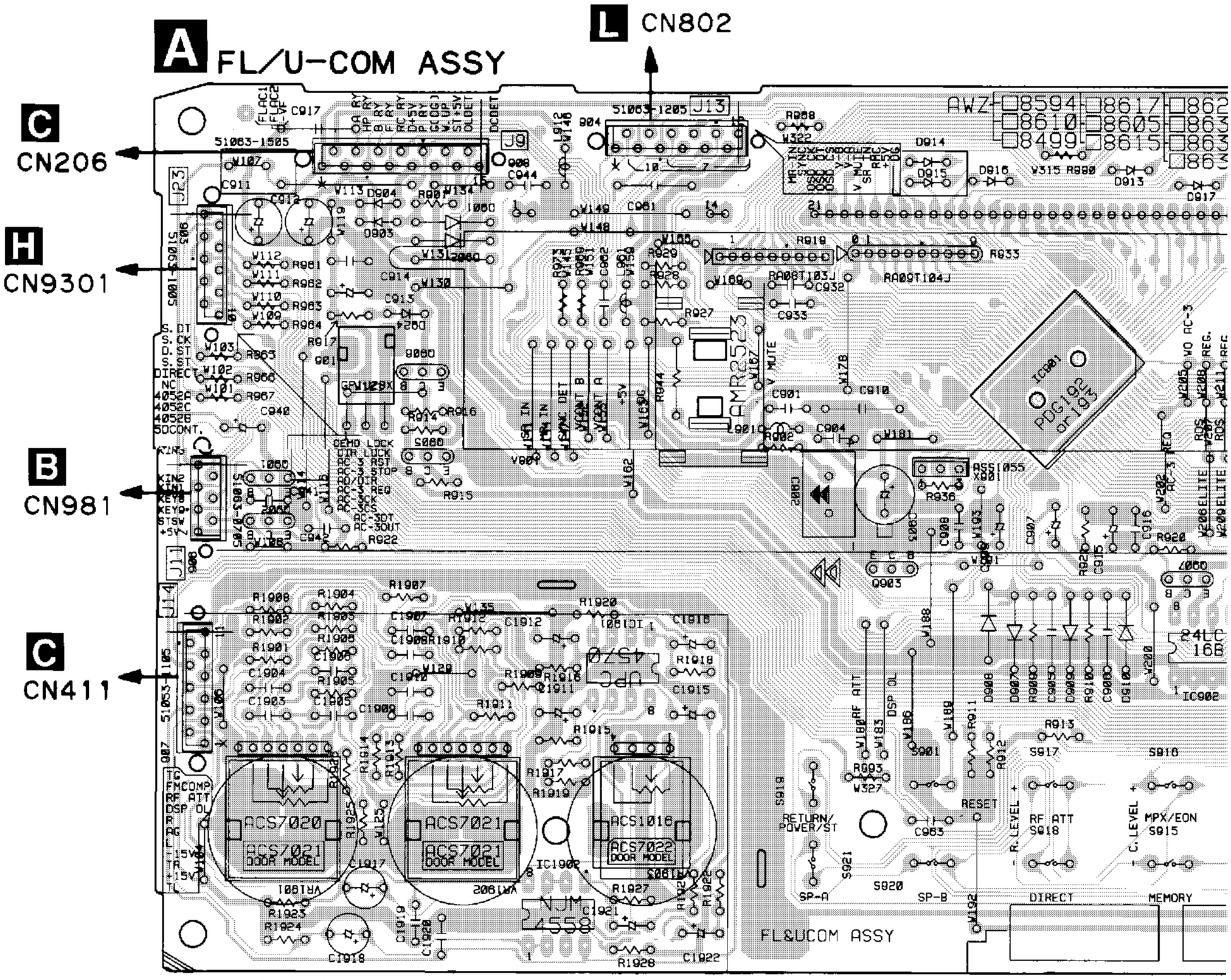
E FRONT SP ASSY

4.2 POWER SWITCH ASSY AND FRONT INPUT ASSY



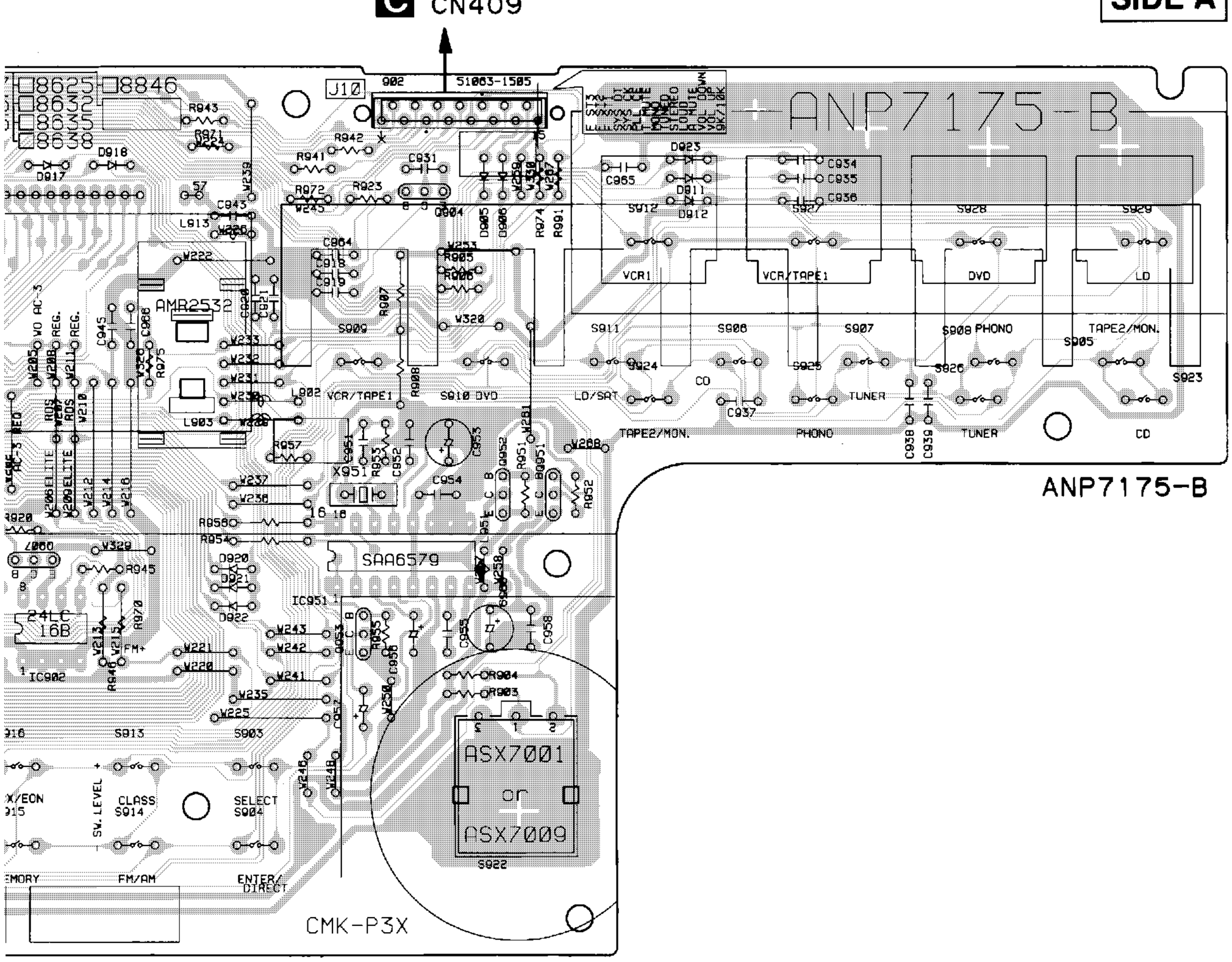


4.3 FL/U-COM ASSY



C CN409

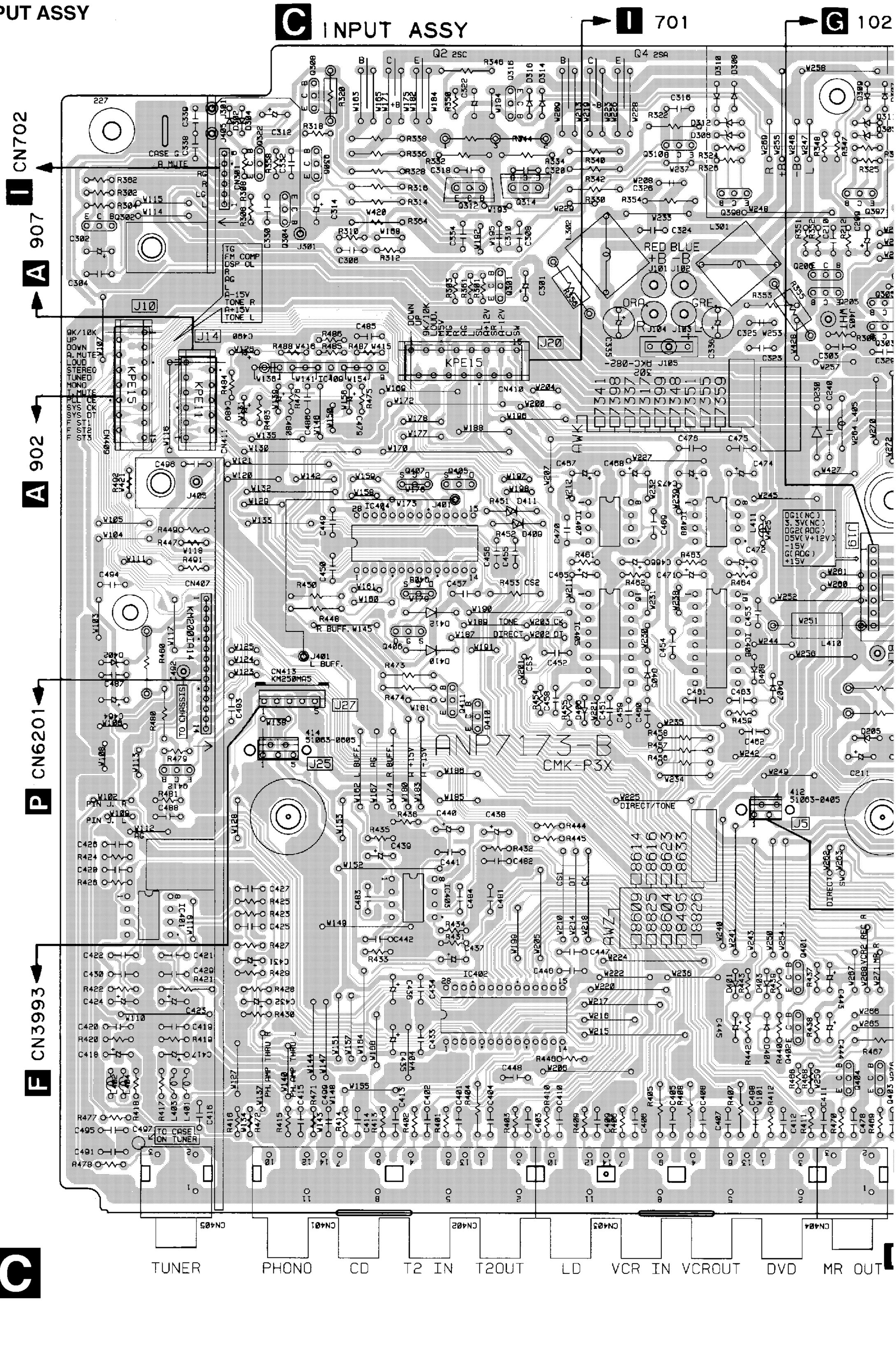
SIDE A



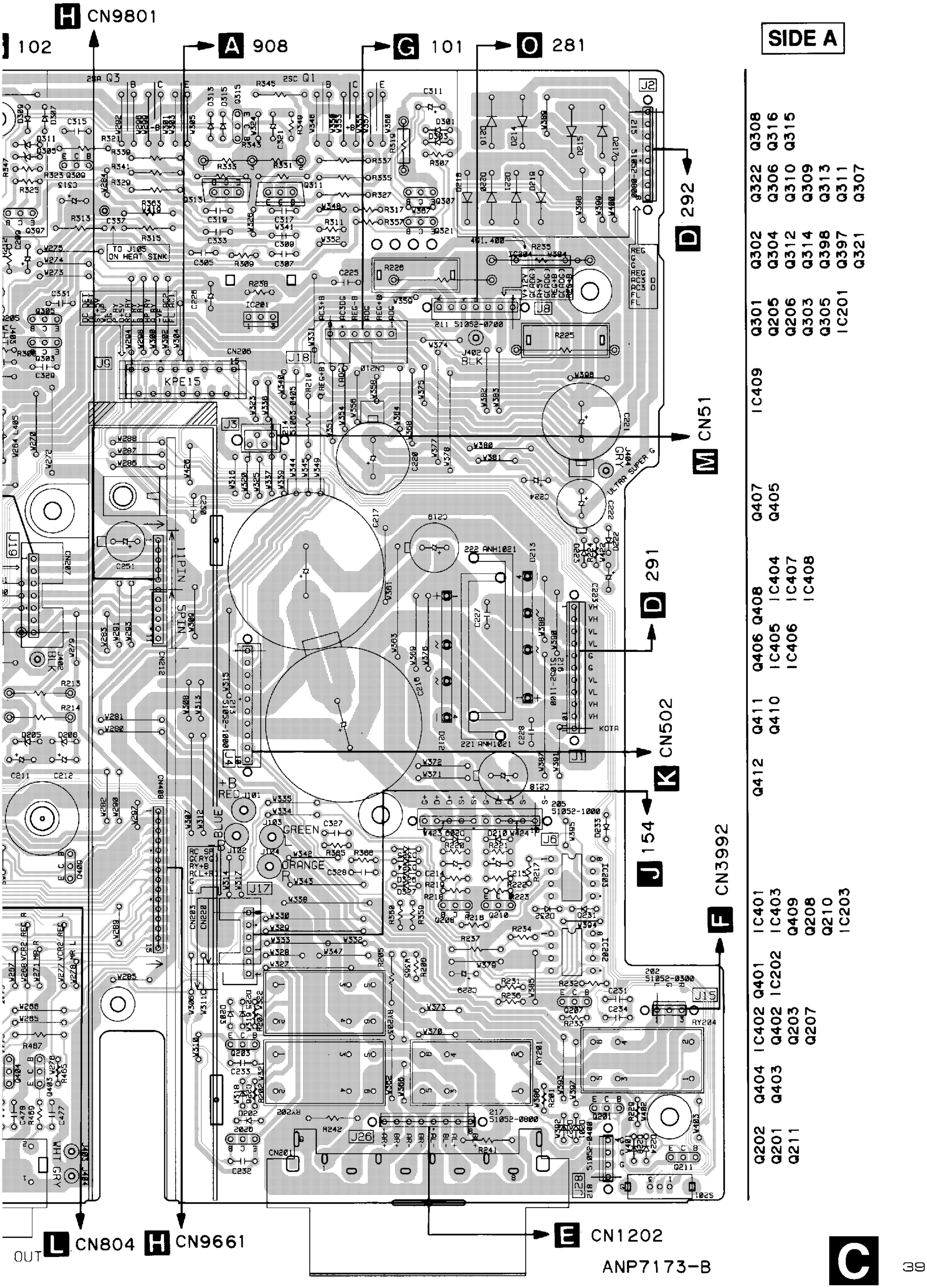
Q907
IC902

Q904 Q952 Q951
IC951
Q953

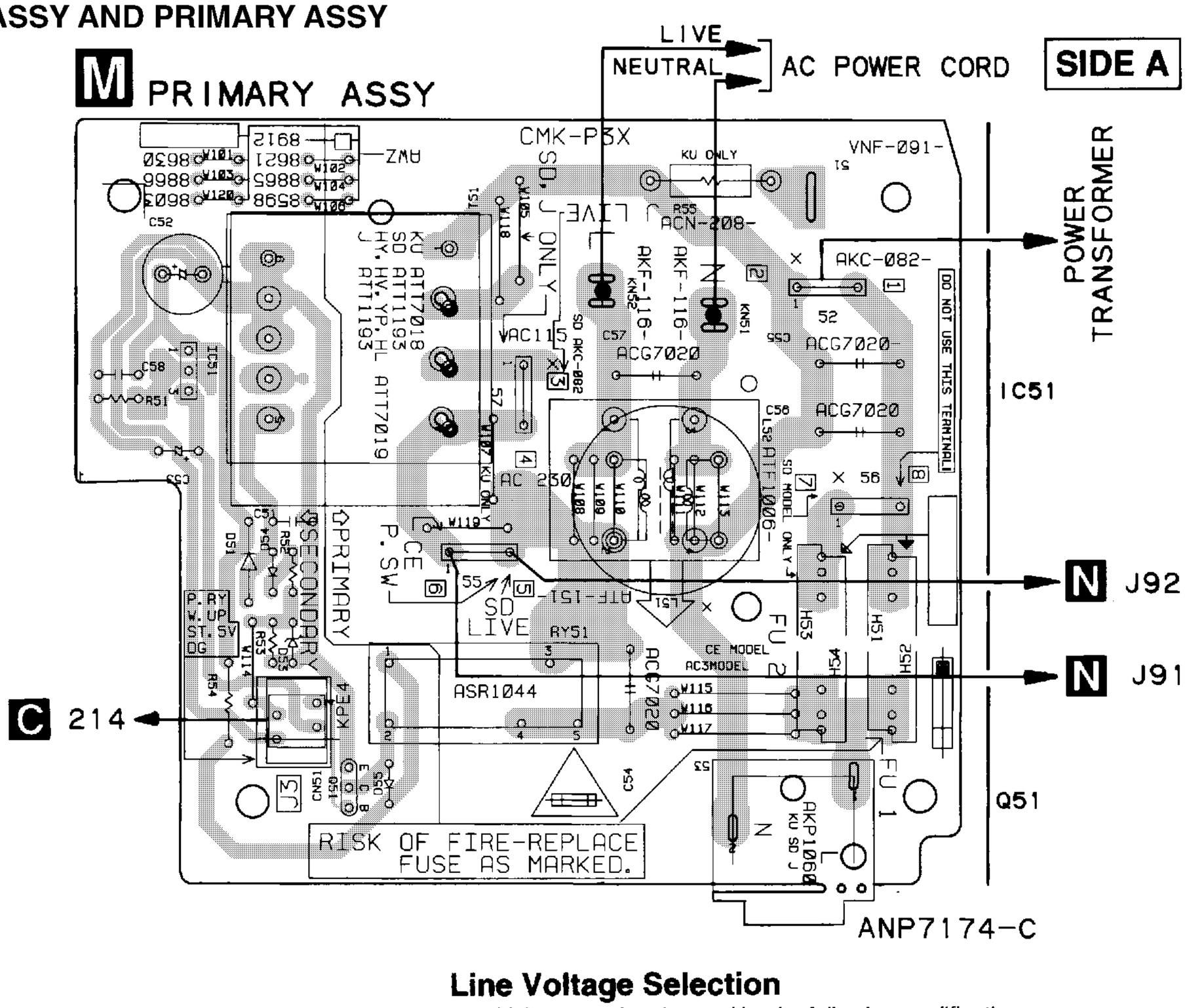
4.4 INPUT ASSY

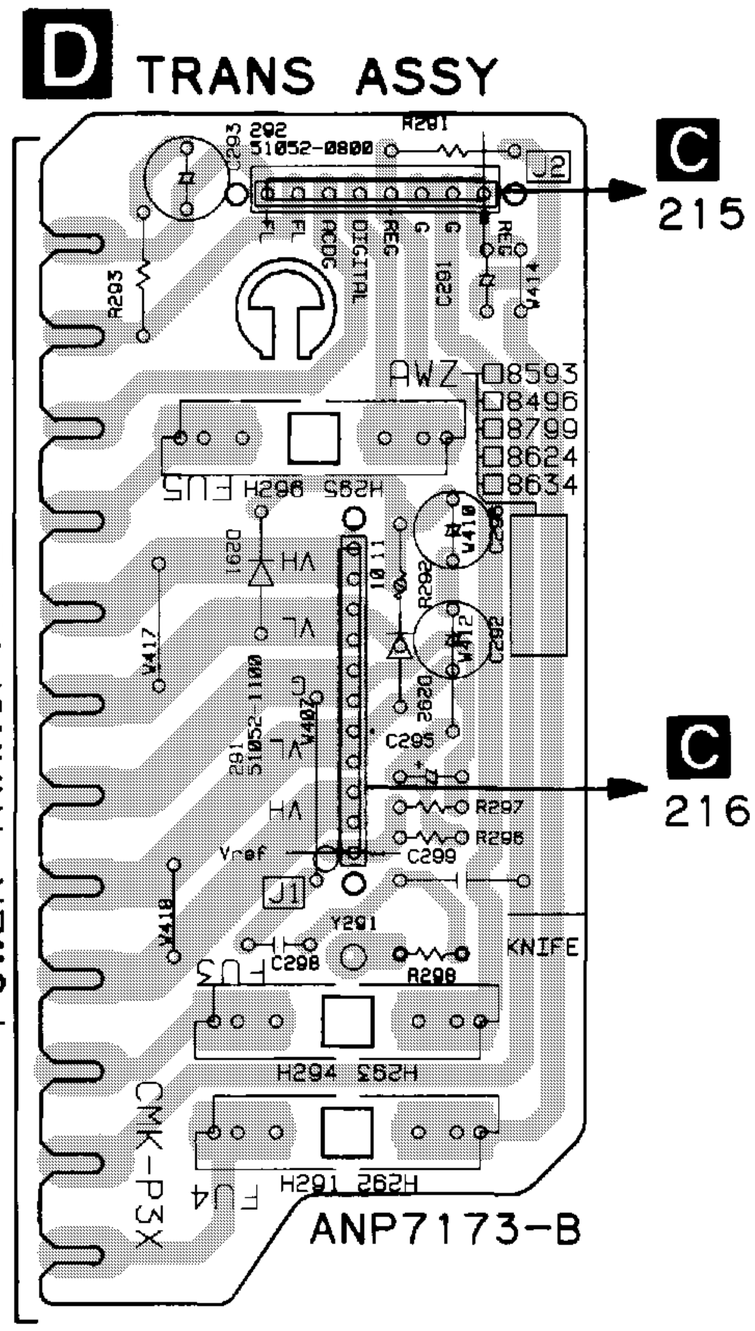


SIDE A


H CN9801
102
A 908
G 101
O 281
D 292
M CN51
D 291
K CN502
J 154
F CN3992
L CN804
H CN9661
E CN1202
ANP7173-B
Q301 Q302 Q322 Q308
Q205 Q304 Q306 Q316
Q206 Q312 Q310 Q315
Q303 Q314 Q309
Q305 Q398 Q313
IC201 Q397 Q311
Q321 Q307
Q406 Q408 Q407 IC409
IC405 IC404 Q405
IC406 IC407
IC408
Q402 Q401 IC401 Q412 Q411
Q402 IC202 IC403 Q410
Q203 Q409
Q207 Q208
Q210
IC203
Q202 Q404 IC402
Q201 Q403
Q211

4.5 TRANS ASSY AND PRIMARY ASSY



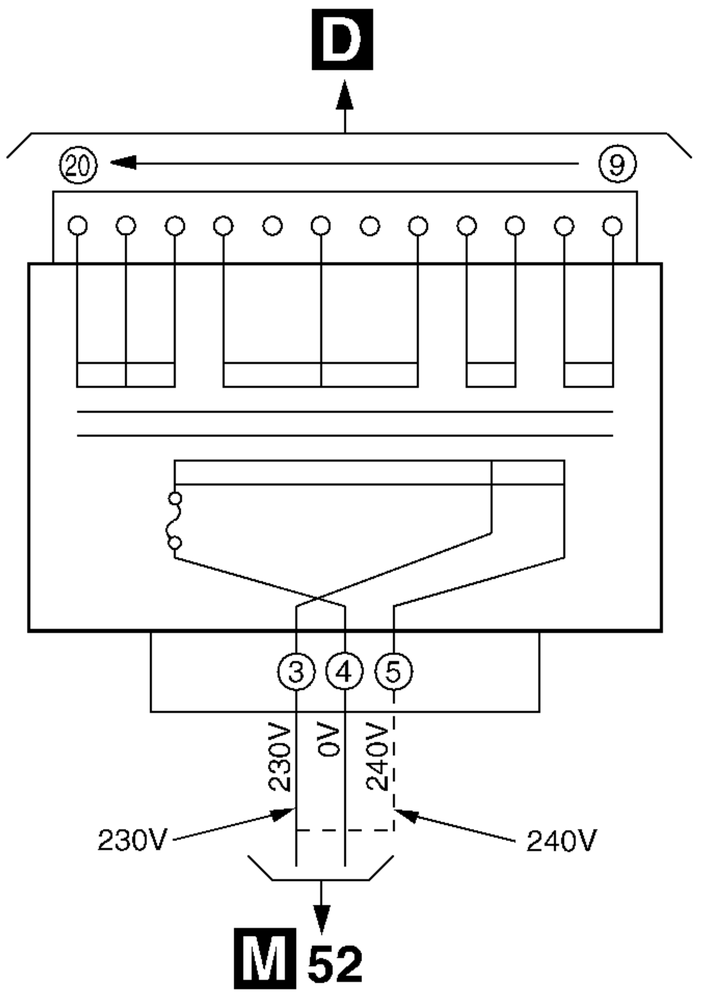


Line Voltage Selection

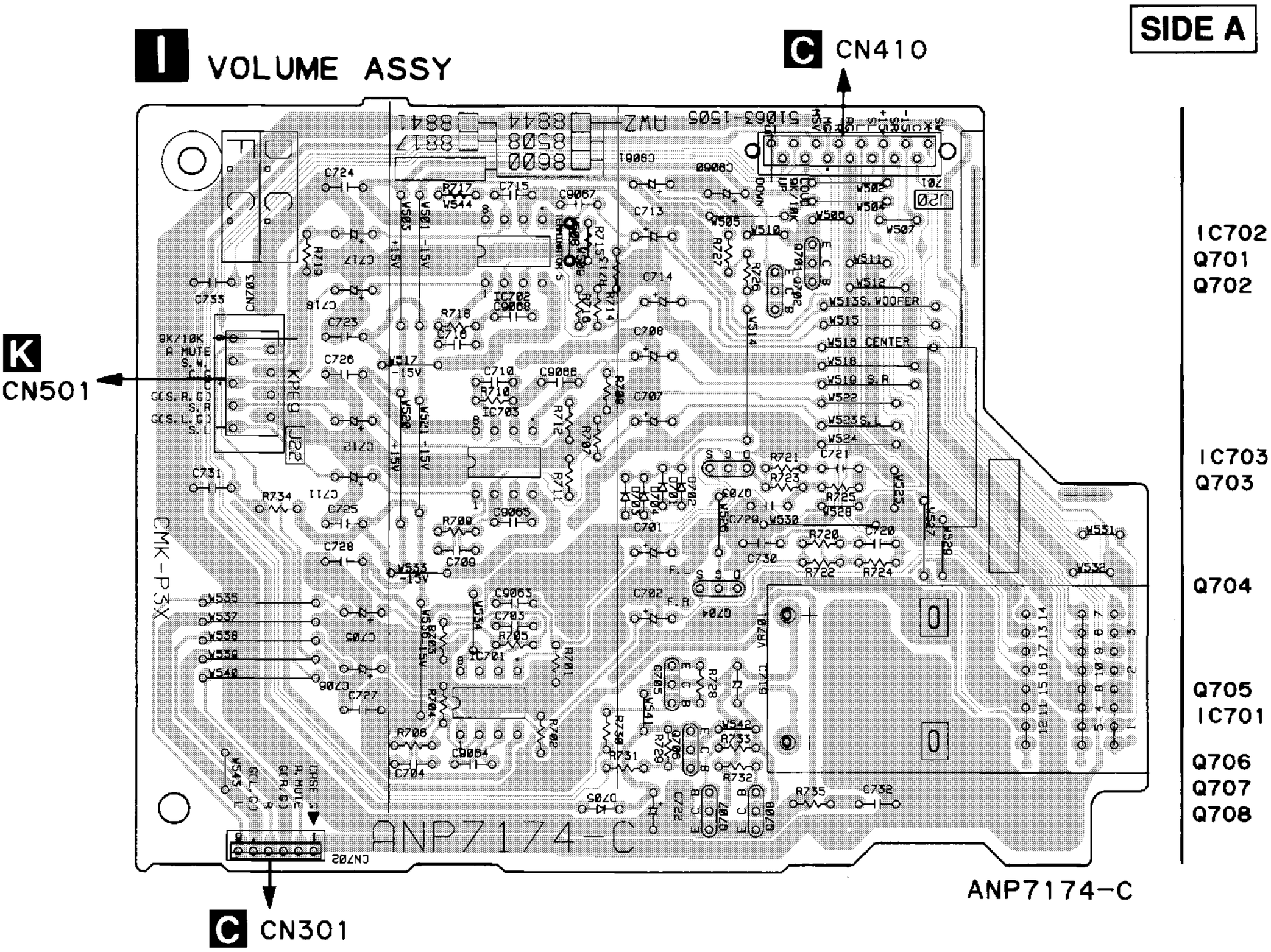
Line Voltage can be changed by the following modification:

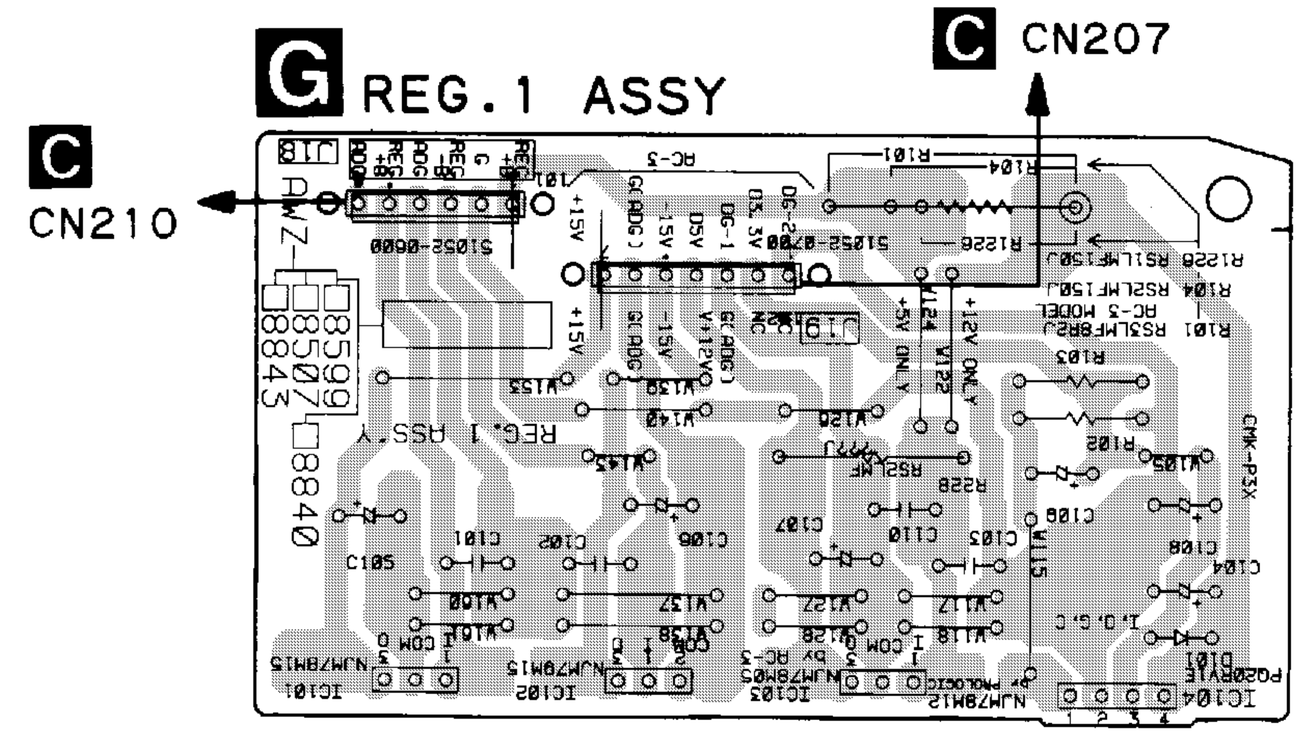
1. Disconnect the AC power cord.
2. Remove the cover.
3. Change the connection of the power transformer primary taps.
4. Stick a line voltage label on the rear panel.

Part No.	Description
AAX–193	220V label
AAX–192	240V label



4.6 VOLUME ASSY AND REG.1 ASSY



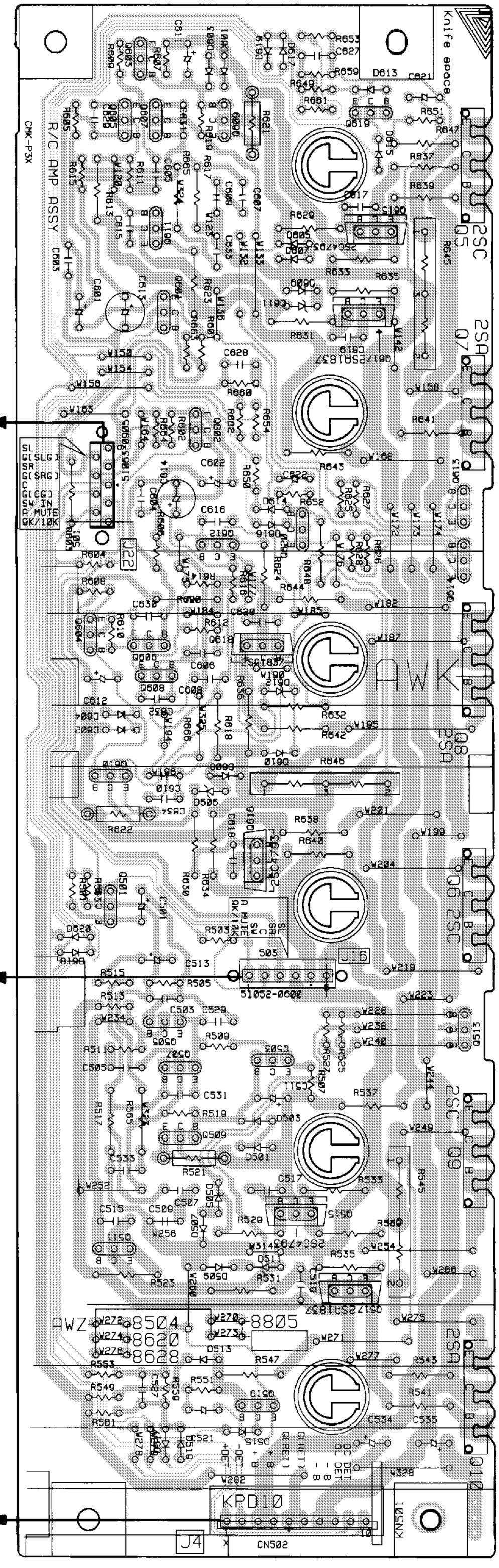


VSX-D736S

4.7 R/C AMP ASSY AND REG.2 ASSY

K R/C AMP ASSY

SIDE A

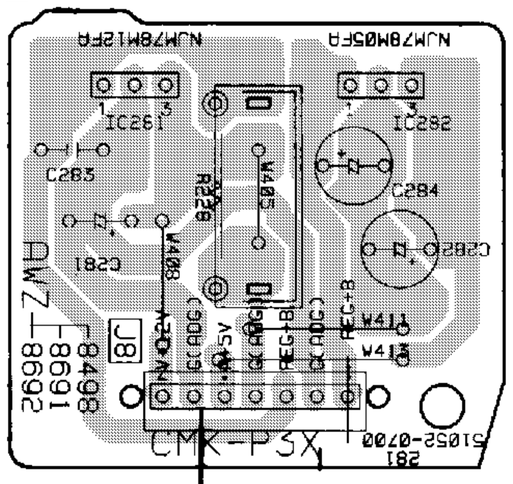


I CN703

J CN153

C 213

O REG.2 ASSY

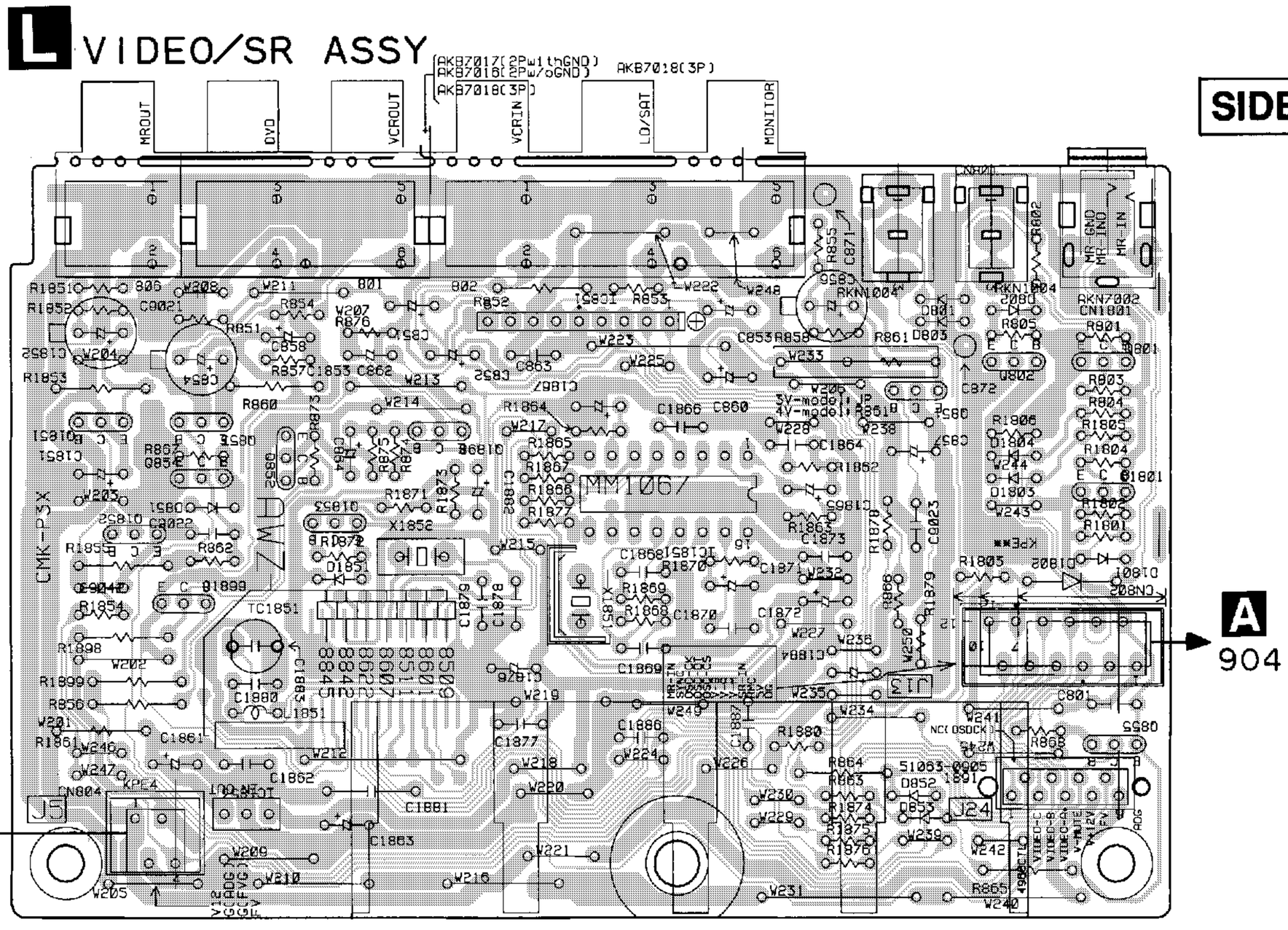


C 211

4.8 VIDEO/SR ASSY

L VIDEO/SR ASSY

SIDE A



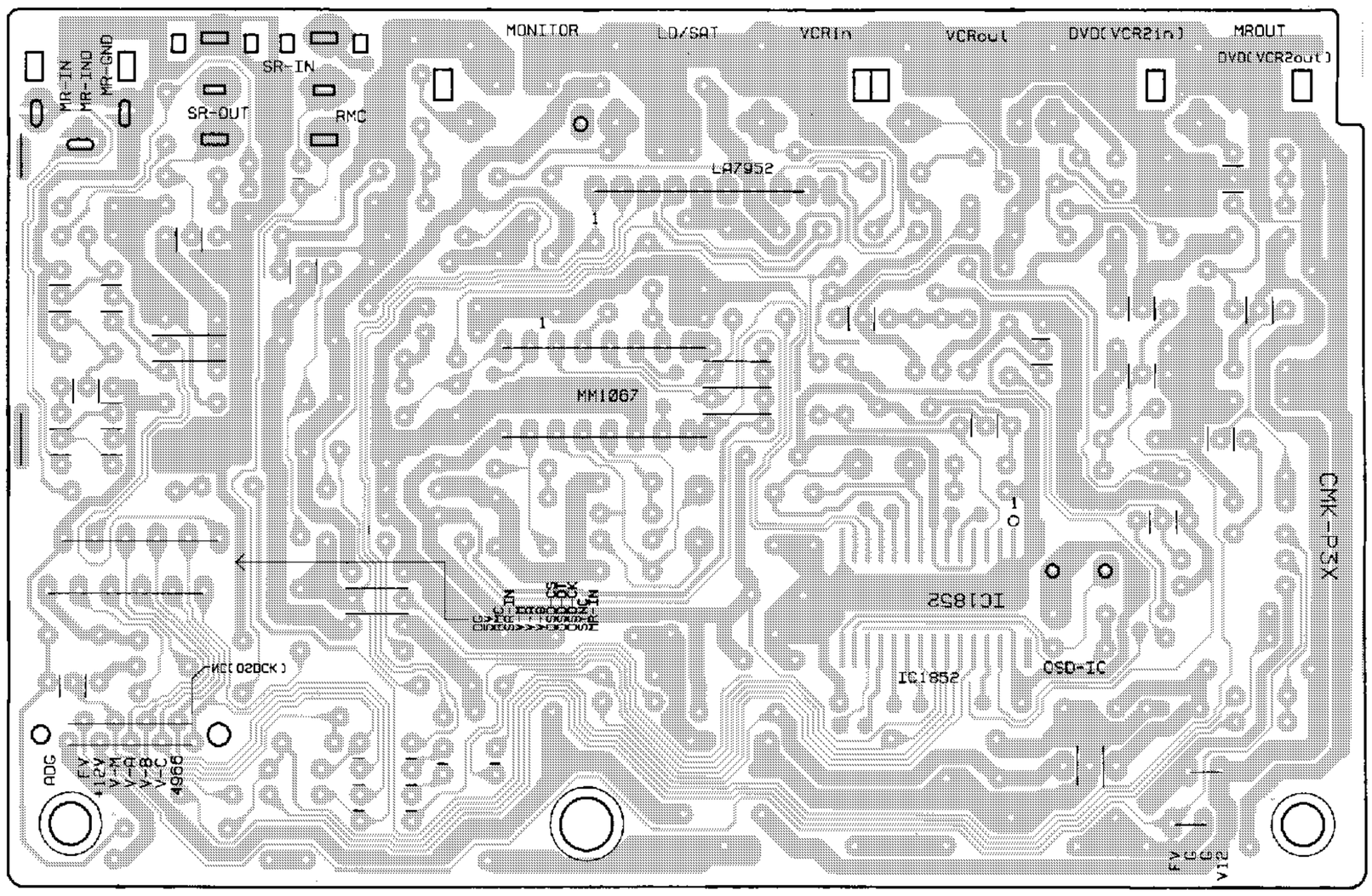
Q1851 Q853 Q852 Q1853 Q1898 IC851 IC1851
Q1852 Q854 IC1853
Q1899

Q851 Q802 Q801
Q1801
Q855

ANP7174-C

L VIDEO/SR ASSY

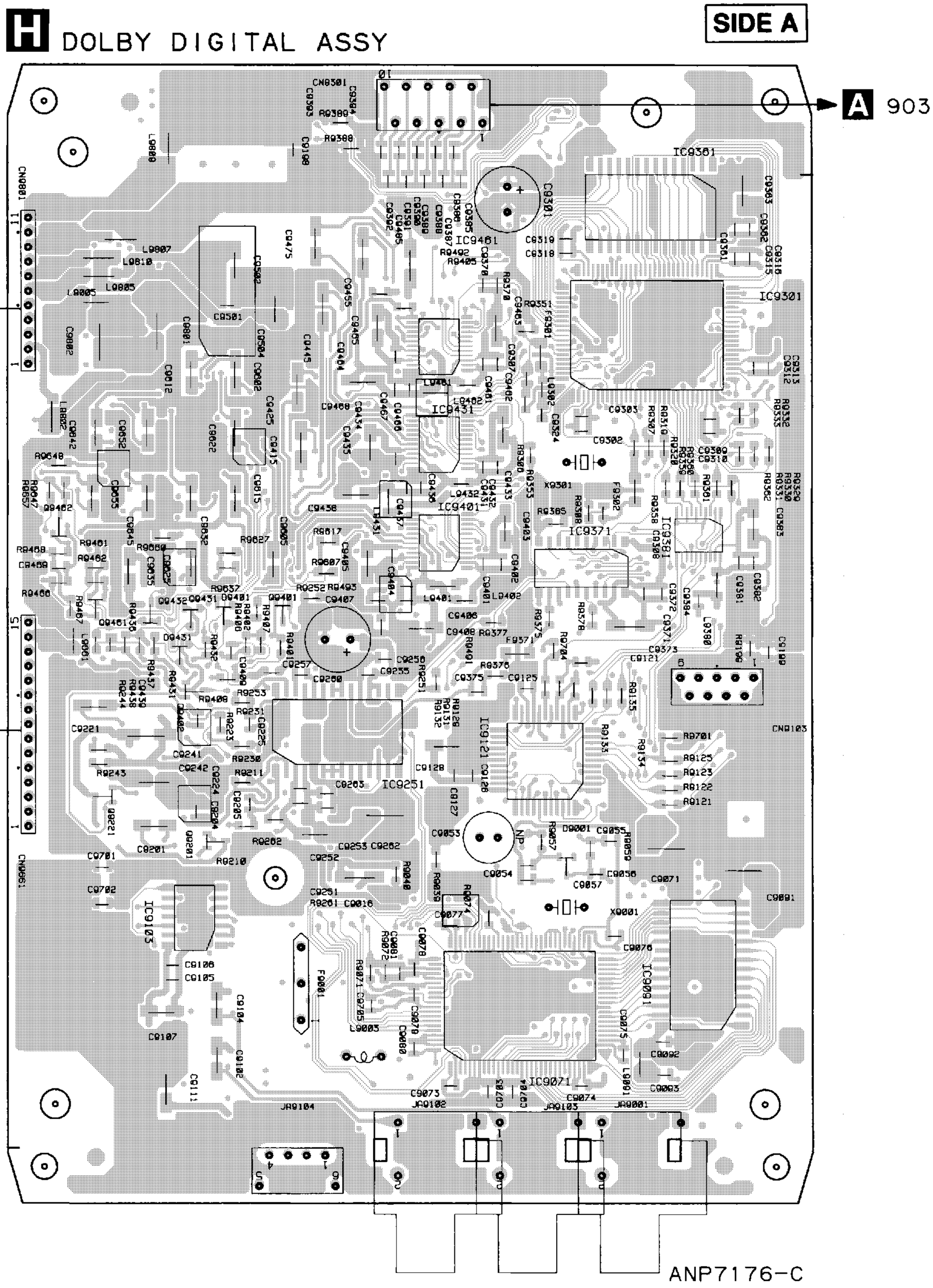
SIDE B



ANP7174-C

4.9 DOLBY DIGITAL ASSY

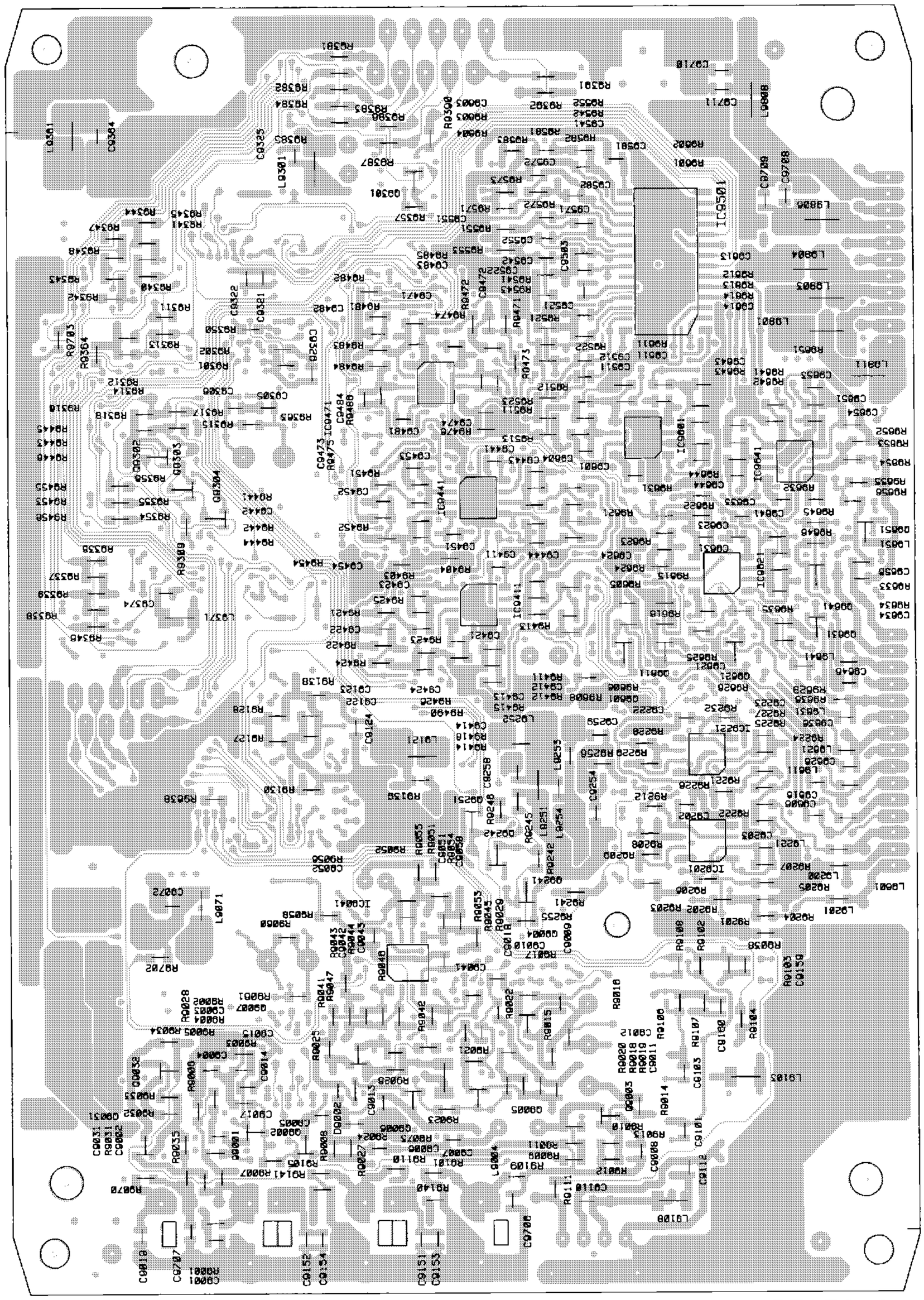
H DOLBY DIGITAL ASSY



Q9462	Q9431	Q9401	IC9461	IC9371	IC9361
Q9461	Q9402	IC9251	IC9431	IC9121	IC9301
Q9221	Q9201		IC9401	IC9071	IC9381
Q9432	IC9103				IC9091

SIDE B

DOLBY DIGITAL ASSY

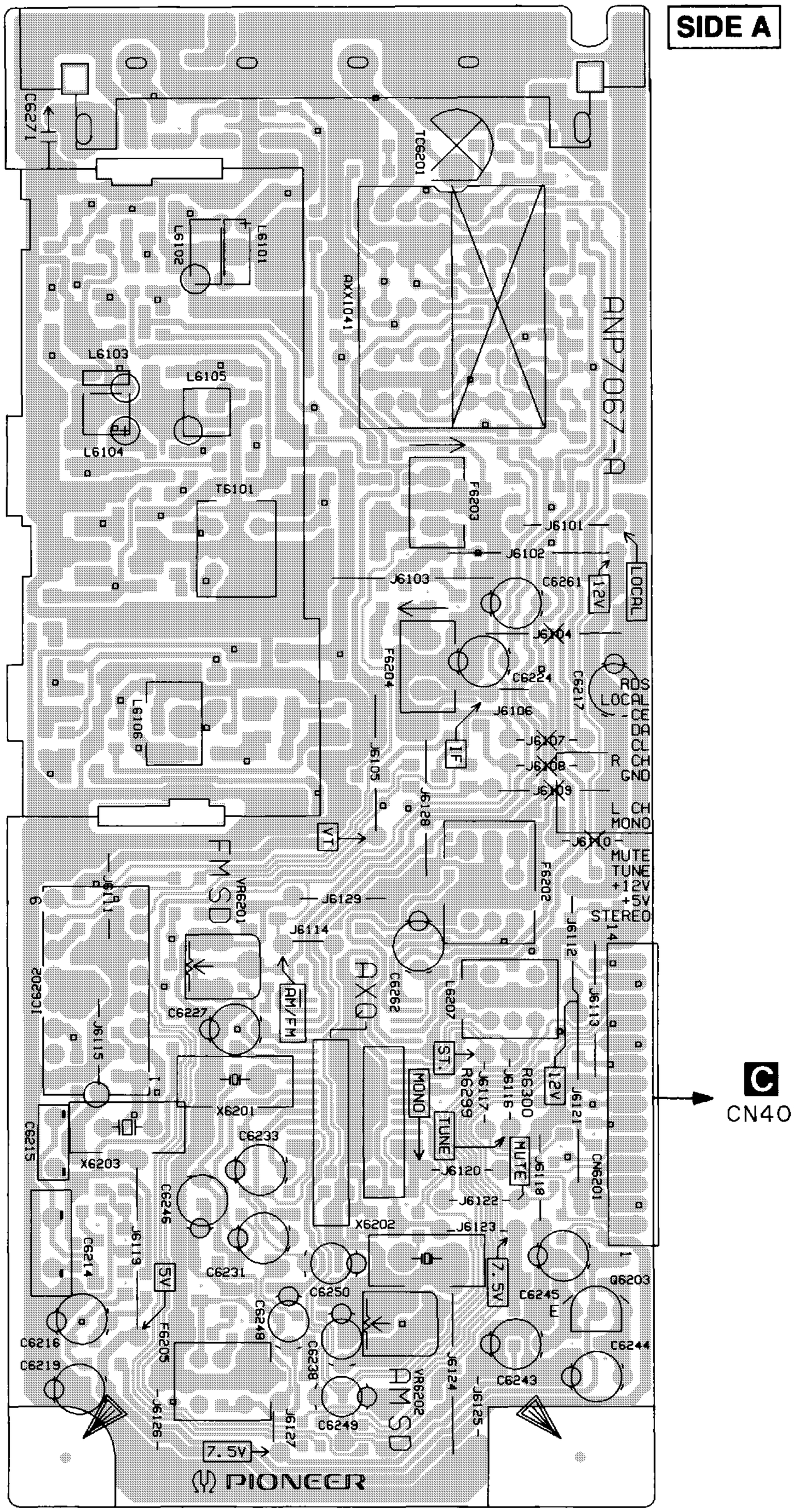


ANP7176-C

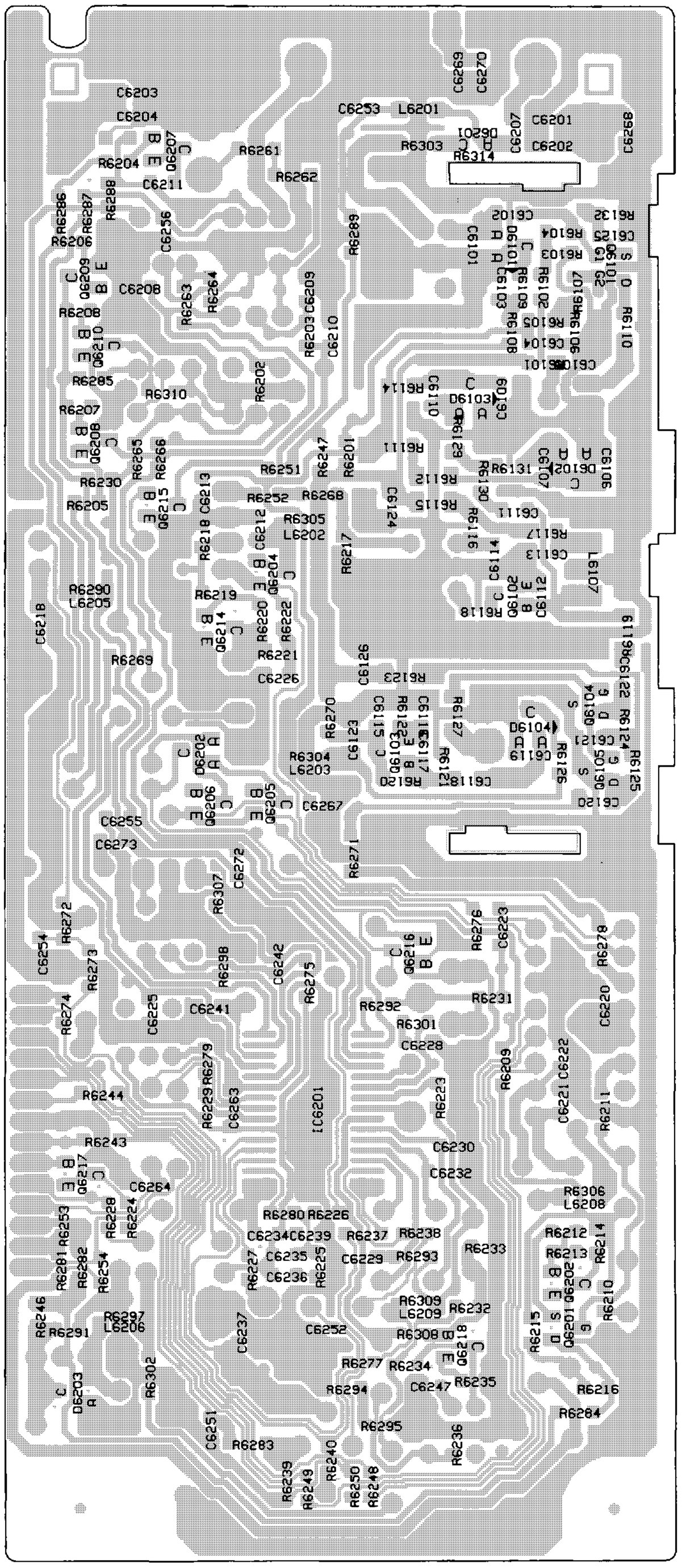
Q9302	Q9304		IC9471	IC9441		IC9501	IC9621	IC9641
Q9303	Q9002		IC9041	IC9411		IC9601	Q9621	Q9651
Q9032			Q9006	Q9251		Q9601	IC9221	Q9641
Q9031			Q9301	Q9242		Q9611	IC9201	Q9631
			Q9005	Q9241		Q9003		
				Q9004				

4.10 FM/AM TUNER MODULE

P FM/AM TUNER MODULE



P FM/AM TUNER MODULE



ANP7067-A

5. PCB PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560Ω	→	*56 × 10¹*	→	*561*	*RD1/4PU 5 6 1 J*
47kΩ	→	*47 × 10³*	→	*473*	*RD1/4PU 4 7 3 J*
0.5Ω	→	*R50*			*RN2H R 5 0 K*
1Ω	→	*1R0*			*RS1P 1 R 0 K*

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62kΩ	→	*562 × 10¹*	→	*5621*	*RN1/4PC 5 6 2 1 F*

Mark	No.	Description	Parts No.

LIST OF ASSEMBLIES

NSP	MOTHER ASSY	AWK7359
	├ REG.2 ASSY	AWZ8498
	├ INPUT ASSY	AWZ8633
	└ TRANS ASSY	AWZ8634
NSP	COMPLEX ASSY	AWK7361
NSP	├ PRIMARY ASSY	AWZ8630
NSP	├ FRONT SP ASSY	AWZ8631
	├ VOLUME ASSY	AWZ8841
	└ VIDEO/SR ASSY	AWZ8842
NSP	ELITE ASSY	AWK7362
	└ R/C SPEAKER ASSY	AWZ8637
NSP	FRONT & R/C AMP ASSY	AWK7363
NSP	├ MECHA SW ASSY	AWZ8503
NSP	├ POWER SWITCH ASSY	AWZ8618
	├ R/C AMP ASSY	AWZ8628
NSP	├ FRONT INPUT ASSY	AWZ8636
	├ FL/U – COM ASSY	AWZ8638
	└ REG.1 ASSY	AWZ8840
	DOLBY DIGITAL ASSY	AWX7041
	FM/AM TUNER MODULE	AXQ7041

O REG.2 ASSY

SEMICONDUCTORS

	IC282	NJM78M05FA
	IC281	NJM78M12FA

CAPACITORS

	C282	CEAS101M10
	C281	CEAS101M16
	C284	CEHAQ470M50
	C283	CGCYX103M25

RESISTORS

	R228	RS2LMF331J

OTHERS

	281 CABLE HOLDER(7P)	51052 – 0700

C INPUT ASSY

SEMICONDUCTORS

⚠	IC204	AEK7024
	IC401	M5220P
	IC403, IC407, IC408	NJM4558D – D
	IC409	NJM4558LD
	IC201	NJM78M56FA
	IC404	TC9162AN
	IC402	TC9273N – 007
	IC405, IC406	TC9299P
	Q307, Q308	2SA1321
	Q313, Q314	2SA1837
	Q321, Q322	2SA970
	Q303 – Q306	2SA992
	Q205, Q206, Q397, Q398	2SC1740S
	Q401, Q402	2SC1740S
	Q315, Q316	2SC2240
	Q412	2SC2668
	Q301, Q302	2SC2878
	Q309, Q310	2SC3334
	Q311, Q312	2SC4793
	Q201 – Q203, Q211	KRC101M
	D201 – D203, D224 – D228, D230	1SS252
	D301 – D304, D307 – D310	1SS252
	D313 – D316, D403 – D408	1SS252
⚠	D212, D213	D15XB20
	D305, D306, D311, D312	MTZJ12B
	D401, D402	MTZJ5.1B
	D222	MTZJ5.1C
	D205, D206	MTZJ6.2B
	D214 – D221	S5688G

COILS AND FILTERS

	L301, L302 (53µH)	ATH1009
	L405, L410, L411	LAU220J
	L401 – L404	LAU221J

SWITCHES AND RELAYS

	RY201 – RY204	ASR7010

Mark	No.	Description	Parts No.
CAPACITORS			
	C227	(0.01µF/AC150V)	ACG1005
	C216	(10000µF/56V)	ACH7014
	C217	(10000µF/56V)	ACH7020
	C419, C420		CCCCH151J50
	C329 – C332, C401, C402		CCCSL101J50
	C405, C406, C409 – C414		CCCSL101J50
	C415, C416, C446 – C448		CCCSL101J50
	C455 – C463, C481, C482		CCCSL101J50
	C317 – C320		CCCSL101K2H
	C303, C304		CCCSL151J50
	C307 – C310		CCCSL220K2H
	C407, C408		CCCSL221J50
	C483, C484		CCCSL331J50
	C333, C334, C403, C404		CCCSL471J50
	C315, C316		CCCSL5R0C2H
	C492		CCDSL271J50
	C321, C322		CEANP2R2M50
	C211, C212		CEAS100M25
	C417, C418		CEAS100M50
	C226, C311, C312		CEAS101M10
	C313, C314, C423, C424		CEAS101M25
	C222		CEAS102M35
	C445		CEAS1R0M50
	C209		CEAS221M10
	C301, C302, C437, C438		CEAS2R2M50
	C443, C444		CEAS2R2M50
	C220		CEAS332M16
	C223		CEAS470M16
	C224, C435, C436, C439, C440		CEAS470M25
	C464		CEAS470M25
	C335, C336		CEAS4R7M2A
	C431, C432, C465 – C468		CEAS4R7M50
	C471 – C474, C479, C480		CEAS4R7M50
	C489, C490		CEAS4R7M50
	C323 – C326		CFTXA104J50
	C230, C488, C491, C496		CGCYX103M16
	C339, C494, C495		CGCYX104M16
	C429, C430, C433, C434		CGCYX473M25
	C441, C442, C449 – C454		CGCYX473M25
	C469, C470, C475, C476, C487		CGCYX473M25
	C337		CGDYX104M16
	C497		CGDYX223M16
	C305, C306		CKCYB102K2H
	C210		CKCYB102K50
	C421, C422		CKCYB681K50
	C225, C485, C486		CKCYF103Z50
	C240		CKPUYF103Z25
	C493		CKPUYX472M16
	C427, C428		CQMA242J50
	C425, C426		CQMA822J50
	C221	(4700µF/35V)	RCH1107

Mark	No.	Description	Parts No.
RESISTORS			
⚠	R343, R344	(0.33Ω / 5W)	ACN – 139
⚠	R225	(47Ω / 5W)	ACN7030
	R210		RD1/2PM270J
⚠	R353, R354		RD1/4PMF100J
⚠	R327 – R334		RD1/4PMF101J
⚠	R345, R346		RD1/4PMF472J
⚠	R319, R320		RD1/4PMF680J
⚠	R321, R322		RF1/4PS101J
⚠	R337 – R340		RF1/4PS4R7J
⚠	R335, R336, R341, R342		RF1/4PS8R2J
⚠	R355, R356		RS1LMF4R7J
	R460		RS1PMF181J
	R213, R214		RS1PMF271J
⚠	R226		RS3LMF270J
		Other Resistors	RD1/4PU□□□J
OTHERS			
	202	CABLE HOLDER(3P)	51052 – 0300
	211	CABLE HOLDER(7P)	51052 – 0700
	215, 217	CABLE HOLDER(8P)	51052 – 0800
	213	CABLE HOLDER(10P)	51052 – 1000
	216	CABLE HOLDER(11P)	51052 – 1100
	214, 412	CABLE HOLDER(4P)	51063 – 0405
	JA401 – JA404	PIN JACK(4P)	AKB7044
	223	HEAT SINK	ANH – 309
	221, 222	HEAT SINK B	ANH1021
	CN301	KR CONNECTOR	B6B – PH – K – S
	224 – 226	SCREW	BBZ30P080FZK
	J301	BOARD IN WIRE	DB007NG0
	J402	BOARD IN WIRE	DB022ND0
	CN407	14P PLUG	KM200IA14
	CN212	11P PLUG	KM200TA11
	CN408	15P PLUG	KM200TA15
	CN413	PLUG 5 – P	KM250MA5
	CN411	CONNECTOR(11P)	KPE11
	CN206, CN409, CN410	CONNECTOR(15P)	KPE15
	227	GROUND PLATE	VNF – 091

D TRANS ASSY

Mark	No.	Description	Parts No.
CAPACITORS			
	C291 – C293	(1µF/100V)	ACH1237
	C298, C299		CKPUYF103Z25
RESISTORS			
	R291 – R293		RF1/4PS4R7J
		Other Resistors	RD1/4PU□□□J
OTHERS			
	292	CABLE HOLDER(8P)	51052 – 0800
	291	CABLE HOLDER(11P)	51052 – 1100
	H291 – H296	FUSE CLIP	AKR1004

Mark	No.	Description	Parts No.
M	**PRIMARY ASSY**		
SEMICONDUCTORS			
	IC51		NJM78M56FA
	Q51		KRC101M
	D54, D55		1SS252
	D53		MTZJ5.1A
	D51		S5688G
COILS AND FILTERS			
⚠	L51	(0.8mH/AC250V)	ATF – 151
TRANSFORMERS			
⚠	T51		ATT7019
SWITCHES AND RELAYS			
⚠	RY51		ASR1044
CAPACITORS			
⚠	C54, C55	(10000pF/AC250V)	ACG7020
	C53		CEAS470M16
	C52		CEAS471M16
	C51		CGCYX103M25
RESISTORS			
	R54		RD1/2PM270J
		Other Resistors	RD1/4PU□□□J
OTHERS			
	H51, H52	FUSE CLIP	AKR1004
	CN51	CONNECTOR(4P)	KPE4
E	**FRONT SP ASSY**		
CAPACITORS			
	C1205, C1206		CQMXA103J2A
	C1201 – C1204		CQMXA473J2A
OTHERS			
	1203	CABLE HOLDER(4P)	51052–0400
	1201	SPEAKER TERMINAL 8 – P	AKE7026
I	**VOLUME ASSY**		
SEMICONDUCTORS			
	IC701 – IC703		UPC4570C
	Q705, Q706		2SA1115
	Q707, Q708		2SC2603
	Q703, Q704		2SK246
	Q702		KRA103M
	Q701		KRC103M
	D701, D703, D705		1SS252
CAPACITORS			
	C720, C721		CCCSL271J50
	C703, C704		CCPUSL470J50
	C719		CEANP100M50
	C722		CEAS220M50
	C701, C702, C705 – C708		CEAS4R7M50
	C711 – C714, C717, C718		CEAS4R7M50
	C729, C730		CFTXA473J50
	C723 – C728		CGCYX104M25
	C715		CKPUYB681K50
	C709, C710, C716		CKPUYB820K50
RESISTORS			
	VR701	(100kΩ – A5×6)	ACX7028
		Other Resistors	RD1/4PU□□□J
OTHERS			
	701	CABLE HOLDER(15P)	51063 – 1505
	CN702	KR CONNECTOR	B6B – PH – K – S
	CN703	CONNECTOR(9P)	KPE9
L	**VIDEO/SR ASSY**		
SEMICONDUCTORS			
	IC851		LA7952
	Q801, Q855		2SA933S
	Q1898, Q1899, Q851 – Q854		2SC1740S
	Q802		KRC103M
	D801, D802, D851 – D853		1SS252
CAPACITORS			
	C1853		CEANP4R7M50
	C857, C858, C860		CEAS470M25
	C854, C856		CEAS471M6R3
	C851 – C853, C864		CEAS4R7M50
	C9021		CGCYX103M16
	C871, C872		CGDYX103M16
	C863		CKCYB102K50
	C801		CKCYF103Z50
RESISTORS			
	R860, R861		RD1/4PM331J
		Other Resistors	RD1/4PU□□□J
OTHERS			
	801	2P RCA PINJACK	AKB7017
	802	3P RCA PINJACK	AKB7018
	CN804	CONNECTOR(4P)	KPE4
	CN802	CONNECTOR(7P)	KPE7
	JA803, JA807	JACK	RKN1004
J	**R/C SPEAKER ASSY**		
SEMICONDUCTORS			
	Q151		2SC1740S
	Q161 – Q163		2SC2878
	D151 – D154		1SS252
COILS AND FILTERS			
	L151 – L153	(1μH)	ATH – 133
	L154 – L156	(0.7μH)	ATH1004
SWITCHES AND RELAYS			
	RY151, RY152		ASR7010

Mark	No.	Description	Parts No.
CAPACITORS			
	C154, C158, C159		CCCSL101J50
	C161 – C166		CFTXA104J50
	C168		CGCYX103M16
	C155		CGCYX472M25
	C160, C167		CGCYX473M16
	C151 – C153		CQMXA473J2A
RESISTORS			
	R183 – R185		RD1/4PMF100J
⚠	R186 – R188		RS1LMF4R7J
		Other Resistors	RD1/4PU□□□J
OTHERS			
	154	CABLE HOLDER(6P)	51052 – 0600
	CN152	PIN JACK(4P)	AKB7087
	CN151	SPEAKER TERMINAL 6 – P	AKE7040

N MECHA SW ASSY

SWITCHES AND RELAYS			
⚠	S91		ASG1035
CAPACITORS			
⚠	C91	(3300pF/AC250V)	ACG7017
OTHERS			
	J91	LEAD WIRE UNIT	DB640EB0
	J92	LEAD WIRE UNIT	DB940EB0

B POWER SWITCH ASSY

SEMICONDUCTORS			
	D981		BR3371XJ30A
SWITCHES AND RELAYS			
	S985, S987 – S990		ASG1034
RESISTORS			
		All Resistors	RD1/4PU□□□J
OTHERS			
	CN981	CONNECTOR(7P)	KPE7

K R/C AMP ASSY

SEMICONDUCTORS			
	Q509, Q609, Q610		2SA1321
⚠	Q517, Q617, Q618		2SA1837
	Q503, Q603, Q604		2SA970
	Q505, Q507, Q605 – Q608		2SA992
⚠	Q513, Q613, Q614		2SC1740S
	Q519, Q619, Q620		2SC2240
	Q501, Q601, Q602		2SC2878
	Q511, Q611, Q612		2SC3334
⚠	Q515, Q615, Q616		2SC4793
	D501, D503, D507, D509, D513		1SS252
	D515, D601 – D604, D607 – D610		1SS252
	D613 – D616		1SS252
	D505, D511, D605, D606		MTZJ12B
	D611, D612		MTZJ12B

Mark	No.	Description	Parts No.
CAPACITORS			
	C529, C531, C629 – C632		CCCSL101J50
	C517, C519, C617 – C620		CCCSL101K2H
	C503, C603, C604		CCCSL151J50
	C507, C509, C607 – C610		CCCSL270K2H
	C533, C633, C634		CCCSL471J50
	C515, C615, C616		CCCSL5R0C2H
	C521, C621, C622		CEANP2R2M50
	C511, C611, C612		CEAS101M10
	C513, C613, C614		CEAS101M25
	C501, C601, C602		CEAS2R2M50
	C534, C535		CEAS4R7M2A
	C505, C605, C606		CKCYB102K2H
RESISTORS			
⚠	R545, R645, R646 (0.22Ω×2 / 5W)		ACN7026
⚠	R529, R531, R533, R535		RD1/4PMF101J
⚠	R629 – R636		RD1/4PMF101J
⚠	R547, R647, R648		RD1/4PMF472J
⚠	R521, R621, R622		RD1/4PMF680J
⚠	R607		RD1/4PU431J
⚠	R523, R623, R624		RF1/4PS101J
⚠	R539, R541, R639 – R642		RF1/4PS4R7J
⚠	R537, R543, R637, R638		RF1/4PS8R2J
⚠	R643, R644		RF1/4PS8R2J
		Other Resistors	RD1/4PU□□□J
OTHERS			
	503	CABLE HOLDER(6P)	51052 – 0600
	501	CABLE HOLDER(9P)	51063 – 0905
	KN501	EARTH METAL FITTING	VNF1084

F FRONT INPUT ASSY

CAPACITORS			
	C3981, C3982		CCCSL221J50
	C3984 – C3986		CGCYX473M16
	C3991, C3992		CKCYB392K50
RESISTORS			
	R3993, R3994		RS1PMF681J
	R3991, R3992		RS2LMF331J
		Other Resistors	RD1/4PU□□□J
OTHERS			
	CN3981	PIN JACK(3P)	AKB7085
	CN3991	JACK	AKN7001
	CN3993	PLUG 5 – P	KM250MA5
	3991	GROUND PLATE	VNF – 091

A FL/U-COM ASSY

SEMICONDUCTORS		
	IC1902	NJM4558D – D
	IC901	PDG210A
	IC1901	UPC4570C
	Q904	2SA933S
	Q905, Q906	2SC1740S

Mark	No.	Description	Parts No.
	Q901, Q903		KRC101M
	Q902		KRC103M
	D901 – D912, D914 – D918		1SS252
	D920, D921, D923, D924		1SS252
COILS AND FILTERS			
	L902, L903		LAU100J
	L901, L961		LAU2R2J
SWITCHES AND RELAYS			
	S901, S903, S904, S913 – S916		ASG1034
	S918 – S921, S923 – S929		ASG1034
	S922		ASX7009
CAPACITORS			
	C902	(0.22F)	ACH7058
	C932, C933		CCPUSL220J50
	C911		CEAS101M35
	C903		CEAS221M10
	C907, C909		CEAS2R2M50
	C940		CEAS470M16
	C913		CEAS470M25
	C912		CEAS470M35
	C1911, C1912, C1915 – C1918		CEJA100M50
	C1921, C1922		CEJA2R2M50
	C1907, C1908		CFTXA123J50
	C1905, C1906		CFTXA274J50
	C1903, C1904		CFTXA473J50
	C1909, C1910		CFTXA563J50
	C1919, C1920		CGCYX103M16
	C908		CGCYX104M16
	C914		CKCYF103Z50
	C934 – C939, C941, C942		CKPUYB101K50
	C919		CKPUYB102K50
	C905, C906		CKPUYF473Z16
	C901, C904, C917, C918, C931		CKPUYY103M16
	C945, C961 – C964		CKPUYY103M16
	C910		CKPYF103Z50
RESISTORS			
	R919		RA8T103J
	VR1901, VR1902	(30kΩ – 20A×2)	ACS7021
	VR1903	(500kΩ)	ACS7022
		Other Resistors	RD1/4PU□□□J
OTHERS			
	906	CABLE HOLDER(7P)	51063 – 0705
	903	CABLE HOLDER(10P)	51063 – 1005
	907	CABLE HOLDER(11P)	51063 – 1105
	904	CABLE HOLDER(12P)	51063 – 1205
	902, 908	CABLE HOLDER(15P)	51063 – 1505
	V901	FL TUBE	AAV7034
	X901	CERAMIC RESONATOR (7.70MHz)	ASS1055
	901	REMOTE RECEIVER UNIT	GP1U28X

Mark	No.	Description	Parts No.
G REG.1 ASSY			
SEMICONDUCTORS			
	IC103		NJM78M05FA
	IC101		NJM78M15FA
	IC102		NJM79M15FA
	IC104		PQ20RV1E
	D101		1SS252
CAPACITORS			
	C107		CEAS101M10
	C105, C106		CEAS101M16
	C108		CEAS470M10
	C104		CEAS470M16
	C101 – C103		CKCYF103Z50
RESISTORS			
	R102		RN1/4PC3000F
	R103		RN1/4PC5100F
	R101		RS3LMF8R2J
OTHERS			
	101	CABLE HOLDER(6P)	51052 – 0600
	102	CABLE HOLDER(7P)	51052 – 0700
H DOLBY DIGITAL ASSY			
SEMICONDUCTORS			
	IC9401, IC9431, IC9461		AK4319 – VM
	IC9251		AK5340 – VS
	IC9121		CD0004AF
	IC9361		KM62V256CLG – 7L
	IC9091		LH52256AN – 70LL
	IC9301		MB86342A
	IC9201, IC9221		NJM2100M
	IC9041, IC9411, IC9441, IC9471, IC9601		NJM4558MD
	IC9621, IC9641		NJM4558MD
	IC9501		PA4025A
	IC9071		PM4007A
	IC9371		TC74HCT244AF
	IC9103		TC74HCU04AF
	IC9381		TC74LVX244FS
	Q9007, Q9241, Q9401, Q9431, Q9461		2PB709A
	Q9003, Q9031, Q9032, Q9242, Q9402		2PD601A
	Q9432, Q9462		2PD601A
	Q9201, Q9221, Q9601, Q9611, Q9621		2SC3326
	Q9631, Q9641, Q9651		2SC3326
	Q9001, Q9002, Q9004 – Q9006		2SC3802K
	Q9304		DTA124EK
	Q9251, Q9301 – Q9303		DTC124EK
	D9401, D9431		1SS181
	D9002		1SS355
	D9001		KV1851
COILS AND FILTERS			
	F9001	(2.88MHz)	ATF7001
	F9301, F9302, F9371		ATF7013
	L9003	(68µH)	ATH7001
	L9301, L9801 – L9811		ATL7001
	L9200, L9201, L9221, L9252 – L9254		ATX1026

Mark	No.	Description	Parts No.
	L9402, L9432, L9462, L9601, L9611		ATX1026
	L9621, L9631, L9641, L9651		ATX1026
	L9302		LCTBR47K2125
	L9004, L9005, L9071, L9091, L9103		VTL1019
	L9121, L9251, L9361, L9371, L9380		VTL1019
	L9401, L9431, L9461, L9661		VTL1019

CAPACITORS

	C9415, C9425, C9445 (22µF/16V)	ACH7038
	C9455, C9475, C9485 (22µF/16V)	ACH7038
	C9201, C9221, C9602, C9605, C9612 (10µF/16V)	ACH7039
	C9615, C9622, C9625, C9632, C9635 (10µF/16V)	ACH7039
	C9642, C9645, C9652, C9655 (10µF/16V)	ACH7039
	C9105, C9122, C9126, C9159, C9160	CCSQCH101J50
	C9255, C9263, C9302, C9309, C9312	CCSQCH101J50
	C9315, C9318, C9321, C9361, C9381	CCSQCH101J50
	C9401, C9406, C9431, C9436, C9461	CCSQCH101J50
	C9466	CCSQCH101J50
	C9511, C9521, C9541, C9551, C9571	CCSQCH102J50
	C9606, C9616, C9626, C9636, C9646	CCSQCH102J50
	C9656	CCSQCH102J50
	C9413, C9414, C9423, C9424	CCSQCH151J50
	C9443, C9444, C9453, C9454	CCSQCH151J50
	C9473, C9474	CCSQCH151J50
	C9125, C9203, C9223, C9305, C9306	CCSQCH220J50
	C9412, C9422, C9442, C9452, C9472	CCSQCH221J50
	C9482	CCSQCH221J50
	C9057	CCSQCH270J50
	C9151, C9152, C9512, C9522, C9542	CCSQCH271J50
	C9552, C9572, C9702, C9704, C9709	CCSQCH271J50
	C9711	CCSQCH271J50
	C9603, C9613, C9623, C9633, C9643	CCSQCH391J50
	C9705	CCSQCH470J50
	C9326, C9392	CCSQCH471J50
	C9307, C9308, C9375	CCSQCH560J50
	C9007	CCSQCH750J50
	C9053	CEANP470M25
	C9301	CEAS102M6R3
	C9257	CEAS471M6R3
	C9107, C9128, C9403, C9405, C9408	CEV100M16
	C9433, C9435, C9438, C9463, C9465	CEV100M16
	C9468, C9502, C9504	CEV100M16
	C9016	CEV100M35
	C9071, C9091, C9262	CEV101M6R3
	C9241	CEV221M4
	C9801, C9802	CEV330M25
	C9242, C9363, C9373, C9383	CEV470M6R3
	C9031, C9371	CKSQYB102K50
	C9014, C9054, C9056, C9092, C9101	CKSQYB103K50
	C9103, C9153, C9154, C9701, C9703	CKSQYB103K50
	C9706 – C9708, C9710	CKSQYB103K50
	C9581, C9121	CKSQYB104K25
	C9205, C9225	CKSQYB152K50
	C9483, C9484	CKSQYB153K50
	C9582	CKSQYB273K50
	C9653	CKSQYB393K50
	C9001 – C9006, C9008 – C9013, C9015	CKSQYF104Z25
	C9017, C9018, C9043, C9051, C9052	CKSQYF104Z25
	C9055, C9058, C9073 – C9081, C9106	CKSQYF104Z25
	C9123, C9127, C9202, C9204, C9222	CKSQYF104Z25
	C9224, C9251, C9253, C9256, C9259	CKSQYF104Z25
	C9303, C9310, C9313, C9316, C9319	CKSQYF104Z25
	C9322, C9324, C9362, C9372, C9382	CKSQYF104Z25
	C9402, C9404, C9407, C9409, C9411	CKSQYF104Z25
	C9421, C9432, C9434, C9437, C9439	CKSQYF104Z25
	C9441, C9451, C9462, C9464, C9467	CKSQYF104Z25
	C9469, C9471, C9481, C9501, C9503	CKSQYF104Z25
	C9601, C9611, C9621, C9631, C9641	CKSQYF104Z25
	C9651	CKSQYF104Z25
	C9041, C9042	CKSQYF105Z16

RESISTORS

	All Resistors	RS1/10S□□□J

OTHERS

JA9000	PIN JACK(3P)	AKB7091
	DOLBY DIGITAL PCB	ANP7183
X9301	CRYSTAL RESONATOR (18.432MHz)	ASS1035
X9001	CRYSTAL FOR VCXO (18.432MHz)	ASS7009
CN9801	11P SOCKET	KP200TA11L
CN9661	15P SOCKET	KP200TA15L
CN9301	CONNECTOR(10P)	KPE10

P FM/AM TUNER MODULE

SEMICONDUCTORS

IC6201	LA1836M
IC6202	LM7001J
Q6102	2SC2223
Q6203	2SC2235
Q6202, Q6218	2SC2712
Q6103, Q6214	2SC2714
Q6201	2SK208
Q6104, Q6105	2SK302
Q6101	3SK194
Q6204	XDA124EK
Q6215, Q6217	XDC124EK
D6101 – D6104	1SV228
D6201	HVU187

COILS AND FILTERS

L6106	ATC1003
L6105	ATC1015
L6101	ATC1016
L6102	ATC1017
L6103	ATC1018

Mark	No.	Description	Parts No.
	L6104		ATC1019
	L6207		ATE1013
	F6204		ATF – 107
	F6203		ATF – 119
	F6205		ATF1152
	F6202		ATF1156
	L6107		ATH1043
	L6209		LCTA221J3225
	L6201 – L6203, L6208		LCTA2R2J3225
	L6205		LCTA680J3225
TRANSFORMERS			
	T6101		ATE – 063
CAPACITORS			
	C6204, C6234, C6236, C6254, C6269	(1µH/16V)	ACG1051
	C6229		CCSCH102J50
	C6120		CCSCH6R0D50
	C6113		CCSQCH101J50
	C6116, C6208, C6221, C6222		CCSQCH150J50
	C6117		CCSQCH330J50
	C6118		CCSQCH8R0D50
	C6111, C6122		CCSQCK1R0C50
	C6112		CCSQCK2R0C50
	C6272		CCSQSL330J50
	C6105		CCSQSL471J50
	C6101		CCSQTH110J50
	C6119		CCSQTH150J50
	C6109		CCSQTH270J50
	C6107, C6110		CCSQTH300J50
	C6106		CCSQTH330J50
	C6231, C6233, C6262		CEAS100M50
	C6216, C6217		CEAS330M16
	C6219		CEAS470M10
	C6243 – C6245		CEAS470M16
	C6227		CEAS470M25
	C6246, C6248		CEEA100M50
	C6224		CEEA101M25
	C6238		CEJA100M16
	C6261		CEJA1R0M50
	C6249, C6250		CEJA4R7M35
	C6215		CFTXA103J50
	C6214		CFTXA224J50
	C6115, C6125, C6126, C6207		CKSQYB102K50

Mark	No.	Description	Parts No.
	C6102, C6114, C6121, C6124, C6210		CKSQYB103K50
	C6253, C6264		CKSQYB103K50
	C6247		CKSQYB122K50
	C6213		CKSQYB223K50
	C6230		CKSQYB273K50
	C6228		CKSQYB472K50
	C6209, C6237, C6267		CKSQYB473K50
	C6251, C6252		CKSQYB562K50
	C6212, C6218		CKSQYF103Z50
	C6220		CKSQYF104Z25
	C6226, C6239, C6242, C6255, C6256		CKSQYF223Z50
	C6235		CKSQYF224Z25
	C6225, C6241		CKSQYF473Z50
	C6123		CKSYB103K50
	C6232		CKSYB273K50
	C6223		CKSYF103Z50
	C6263		CKSYF473Z50
RESISTORS			
	R6299, R6300		RD1/4PU102J
	R6115, R6119, R6123, R6127, R6129		RS1/8S0R0J
	R6268 – R6273, R6275, R6276, R6278		RS1/8S0R0J
	R6283, R6284, R6289, R6293, R6294		RS1/8S0R0J
	R6297, R6302, R6303		RS1/8S0R0J
	R6243, R6244		RS1/8S101J
	R6211, R6239		RS1/8S103J
	R6237		RS1/8S122J
	R6247		RS1/8S152J
	R6209		RS1/8S221J
	R6112		RS1/8S473J
	VR6201	(10kΩ / 0.1W)	ACP1056
	VR6202		VRTB6VS223
		Other Resistors	RS1/10S□□□J
OTHERS			
	BN6201	2P TERMINAL WITH PAL	AKA1017
	X6203	CRYSTAL RESONATOR (7.200MHz)	ASS1042
	X6201	CRYSTAL RESONATOR (456kHz)	ASS1066
	X6202	CERAMIC RESONATOR (450kHz)	ATF1027
	CN6201	14P SOCKET	KP200IA14L
		AM RF TUNING BLOCK	AXX1025

6. ADJUSTMENT

■ ADJUSTMENT OF FM TUNER SECTION

- Set the FM/AM selector to FM BAND.
- Connect the wiring as shown in Fig. 6–1.

Step No.	Adjustment Title	FM SG (1kHz, ±75kHz dev.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (MHz)	Level (dBμV)			
1	Center Adjustment	98	80	98MHz	L6207	Adjust so that the DC voltage between IC6201-Pin 4 and Pin 28 (or + leads of C6224 and C6261) becomes 0V±50mV.
2	Front End Sensitivity adjustment	106	Low input (0 to 30)	106MHz	L6104 L6105 L6102 T6101	After adjusting L6104 and L6105 so that the DC voltage between IC6201-Pin 12 and GND (or + leads of C6238 and GND) becomes at maximum level, adjust T6101 and L6102.
3	Stereo Distortion	98	80	98MHz	T6101	Minimize the distortion with 1/8 rotation of the core.
4	TUNED IND. Lighting Level	98	15 (±2dB)	98MHz	VR6201	Adjust so that the indicator of TUNED IND. starts to light up.

Notes:

- *Before adjusting, make sure there is no gap between L6101 and L6102 and between L6103 and L6104. If there is a gap between them, bring them into contact with each other first, and then make adjustments.*
- *Make indicator adjustments in order of AM → FM.*
- *Adjustment sequence : L6104 → L6105 → L6102 → T6101.*

■ ADJUSTMENT OF AM TUNER SECTION

- Set the FM/AM selector to AM BAND.
- Connect the wiring as shown in Fig. 6–1.

Step No.	Adjustment Title	AM SG (400Hz, 30% Mod.)		Reception Frequency Display	Adjustment Location	Specifications
		Frequency (kHz)	Level (dBμV/m)			
1	TUNED IND. Lighting Level	999*1	47(±2dB)	999kHz*1	VR6202	Adjust so that the indicator of TUNED IND. starts to light up.

**1: For the area using 10kHz step, frequencies should be 1000kHz*

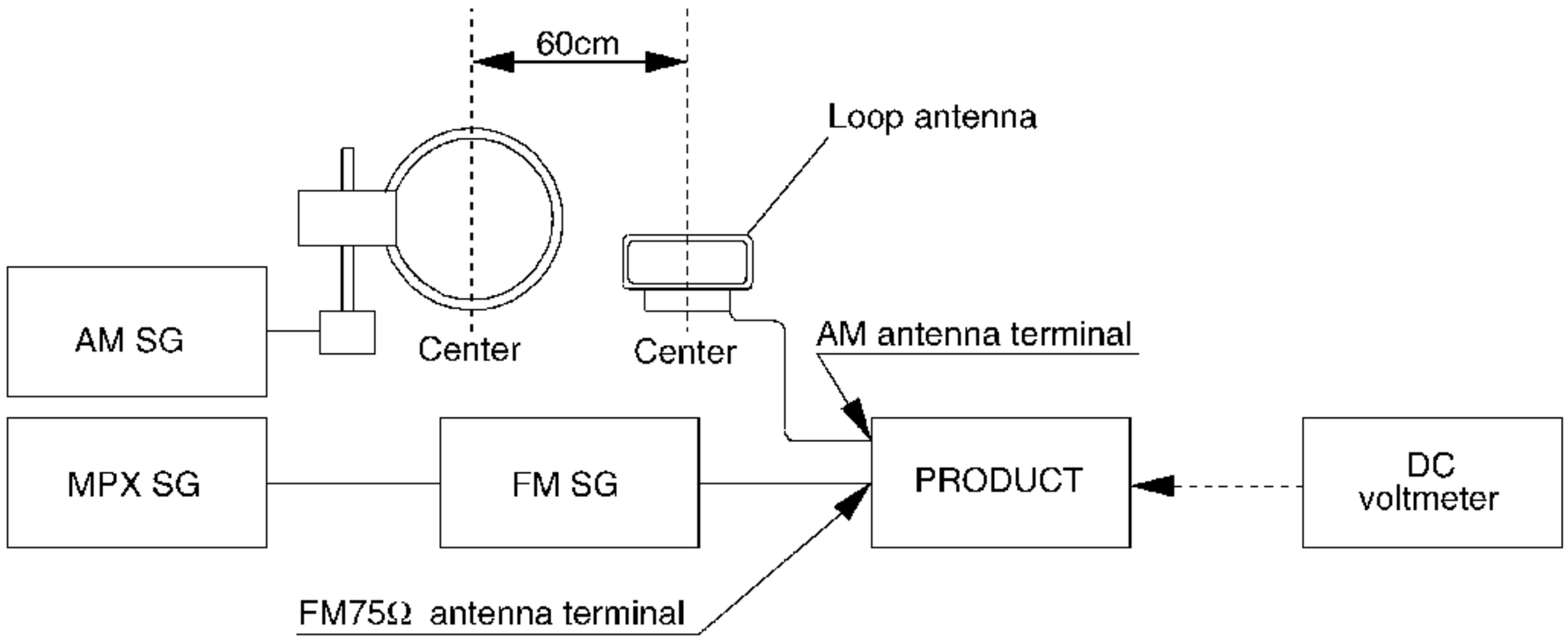


Fig. 6–1 AM and FM Adjustment Wiring Diagram

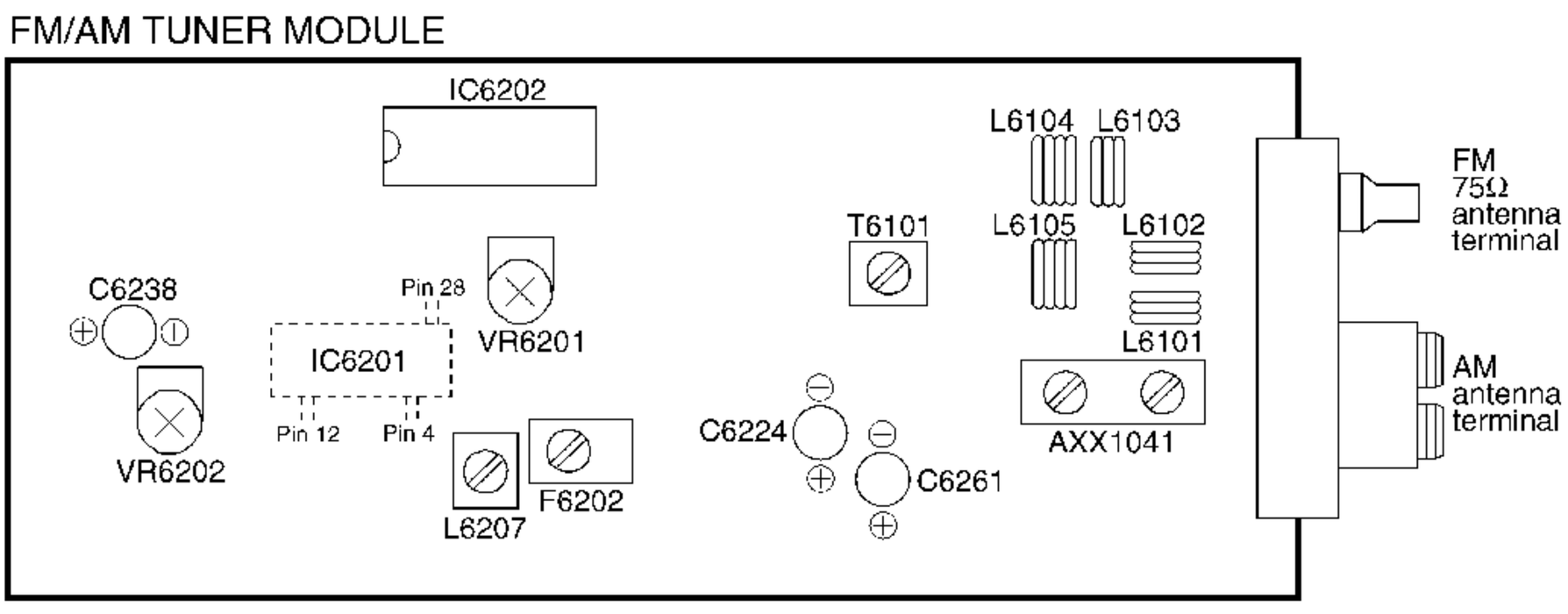


Fig. 6–2 Adjustment Points

7. GENERAL INFORMATION

7.1 PARTS

7.1.1 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

■ PDG210A (FL/U-COM ASSY : IC901)

● Microcomputer Port Function Table

PIN No.	PIN NAME	FUNCTION	RESET	I/O	FUNCTION
1	G1/A1	O/O	Hi-Z or PD	O	FL Grid 2
2	G0/A0	O/O	Hi-Z or PD	O	FL Grid 1
3	NC	(5V)			(5V)
4	PE0/EC0/INT0	I/I/I	Hi-Z	I	AC WAKE-UP
5	PE1/EC1/INT1	I/I/I	Hi-Z	I	RDS DT
6	PE2/INT2	I/I	Hi-Z	I	RDS CK
7	PE3/INT3/NMI	I/I/I	Hi-Z	I	AC-3 REQ.
8	PE4/RMC	I/I	Hi-Z	I	RMC
9	PE5	I/I	Hi-Z	I	9K/10K
10	PE6/PWM	O/O	H	O	VOL.UP
11	PE7/TO/ADJ	O/O/O	H	O	VOL.DOWN
12	PC0/KR0	IO/I	Hi-Z	I	TUNED
13	PC1/KR1	IO/I	Hi-Z	I	STEREO
14	PC2/KR2	IO/I	Hi-Z	I	JOG 1
15	PC3/KR3	IO/I	Hi-Z	I	JOG 2
16	PC4/KR4	IO/I	Hi-Z	I	KEY IN 1
17	PC5/KR5	IO/I	Hi-Z	I	KEY IN 2
18	PC6/KR6	IO/I	Hi-Z	I	KEY IN 3
19	PC7/KR7	IO/I	Hi-Z	I	DEM. LOCK
20	PB0/CINT	IO/I	Hi-Z	I	DIR. LOCK
21	PB1/CS0	IO/I	Hi-Z	O	AC-3 RST
22	PB2/SCK0	IO/IO	Hi-Z	O	AC-3 CK
23	PB3/SI0	IO/I	Hi-Z	I	AC-3 OUT
24	PB4/SO0	IO/I	Hi-Z	O	AC-3 DT
25	PB5/SCK1	IO/IO	Hi-Z	O	AC-3 CS
26	PB6/SI1	IO/I	Hi-Z	O	AD/DIR
27	PB7/SO1	IO/O	Hi-Z	O	AC-3 STOP
28	AV_{REF}	I	(5V)	I	5V
29	PA0/AN0	IO/AI	Hi-Z	I	KU-HY Selection
30	PA1/AN1	IO/AI	Hi-Z	O	FM+ (RDS)
31	PA2/AN2	IO/AI	Hi-Z	O	RF ATT (RDS)
32	PA3/AN3	IO/AI	Hi-Z	O	DSP OL
33	PA4/AN4	IO/AI	Hi-Z	I	AMP OL
34	PA5/AN5	IO/AI	Hi-Z	I	AMP DC
35	PA6/AN6	IO/AI	Hi-Z	O	V.CONT B
36	PA7/AN7	IO/AI	Hi-Z	O	V.CONT A
37	AVss	(GND)	GND		GND
38	RST	I	LOW	I	RST
39	EXTAL	I	Oscillation	I	Oscillation
40	XTAL	O	Oscillation	O	Oscillation
41	Vss	(GND)	GND		GND
42	TX	O		O	OPEN
43	TEX	I		I	GND
44	V_{DD}	(5V)	5V		5V
45	V_{FDP}	(V_F)	V_F		V_F
46	PD0/A55	O/O	Hi-Z or PD	O	V.MUTE
47	PD1/A54	O/O	Hi-Z or PD	O	AC RY
48	PD2/A53	O/O	Hi-Z or PD	O	R.C. RY
49	PD3/A52	O/O	Hi-Z or PD	O	FRONT RY
50	PD4/A51	O/O	Hi-Z or PD	O	SP-B RY

PIN No.	PIN NAME	FUNCTION	RESET	I/O	FUNCTION
51	PD5/A50	O/O	Hi-Z or PD	O	HP RY
52	PD6/A49	O/O	Hi-Z or PD	O	SP-A RY
53	PD7/A48	O/O	Hi-Z or PD	O	no use
54	PF0/A47	O/O	Hi-Z or PD	O	no use
55	PF1/A46	O/O	Hi-Z or PD	O	no use
56	PF2/A45	O/O	Hi-Z or PD	O	(OPEN)
57	PF3/A44	O/O	Hi-Z or PD	O	(OPEN)
58	PF4/A43	O/O	Hi-Z or PD	O	F. ST 3
59	PF5/A42	O/O	Hi-Z or PD	O	F. ST 2
60	PF6/A41	O/O	Hi-Z or PD	O	F. ST 1
61	PF7/A40	O/O	Hi-Z or PD	O	SYS. DT
62	PG0/A39	O/O	Hi-Z or PD	O	SYS. CK
63	PG1/A38	O/O	Hi-Z or PD	O	PLL CE
64	PG2/A37	O/O	Hi-Z or PD	O	T. MUTE
65	PG3/A36	O/O	Hi-Z or PD	O	A. MUTE
66	PG4/A35	O/O	Hi-Z or PD	O	MONO
67	PG5/A34	O/O	Hi-Z or PD	O	LOUDNESS
68	PG6/A33	O/O	Hi-Z or PD	O	(OPEN)
69	PG7/A32	O/O	Hi-Z or PD	O	SEG.21
70	PH0/A31	O/O	Hi-Z or PD	O	SEG.20
71	PH1/A30	O/O	Hi-Z or PD	O	SEG.19
72	PH2/A29	O/O	Hi-Z or PD	O	SEG.18/KEY 1
73	PH3/A28	O/O	Hi-Z or PD	O	SEG.17/KEY 2
74	PH4/A27	O/O	Hi-Z or PD	O	SEG.16/KEY 3
75	PH5/A26	O/O	Hi-Z or PD	O	SEG.15/KEY 4
76	PH6/A25	O/O	Hi-Z or PD	O	SEG.14/KEY 5
77	PH7/A24	O/O	Hi-Z or PD	O	SEG.13/KEY 6
78	A23	O	Hi-Z or PD	O	SEG.12/KEY 7
79	A22	O	Hi-Z or PD	O	SEG.11/KEY 8
80	A21	O	Hi-Z or PD	O	SEG.10/KEY 9
81	A20	O	Hi-Z or PD	O	SEG. 9/KEY10
82	A19	O	Hi-Z or PD	O	SEG. 8
83	A18	O	Hi-Z or PD	O	SEG. 7
84	A17	O	Hi-Z or PD	O	SEG. 6
85	A16	O	Hi-Z or PD	O	SEG. 5
86	G15/A15	O/O	Hi-Z or PD	O	SEG. 4
87	G14/A14	O/O	Hi-Z or PD	O	SEG. 3
88	G13/A13	O/O	Hi-Z or PD	O	SEG. 2
89	V_{DD}	5V	5V		5V
90	G12/A12	O/O	Hi-Z or PD	O	SEG. 1
91	G11/A11	O/O	Hi-Z or PD	O	FL Grid12
92	G10/A10	O/O	Hi-Z or PD	O	FL Grid11
93	G9/A9	O/O	Hi-Z or PD	O	FL Grid10
94	G8/A8	O/O	Hi-Z or PD	O	FL Grid 9
95	G7/A7	O/O	Hi-Z or PD	O	FL Grid 8
96	G6/A6	O/O	Hi-Z or PD	O	FL Grid 7
97	G5/A5	O/O	Hi-Z or PD	O	FL Grid 6
98	G4/A4	O/O	Hi-Z or PD	O	FL Grid 5
99	G3/A3	O/O	Hi-Z or PD	O	FL Grid 4
100	G2/A2	O/O	Hi-Z or PD	O	FL Grid 3

Pin No.	Port Function	Logic	Function
4	AC WAKE UP input	50 or 60 Hz square wave	Same as the conventional model. Normal operation mode when signals are input. When signals are absent and 2 waves are dropped, the "STOP mode" should be set. Note) To prevent incorrect operations due to noise and static electricity, implement noise removal measures.
5	RDS DATA input	Depending on SAA6579	DATA for the serial control of RDS communication.
6	RDS CLK input	Depending on SAA6579	CLK for the serial control of RDS communication.
8	SR remote controller input	SR remote controller code (no carrier, Hi active).	The output of the light-receiving section of the remote controller of the unit and output from SR IN of the light-receiving section of the remote controller of other unit are input.
9	Freq. step select input (9K/10K)	H/L	Selects frequency steps of the tuner. FM AM H 100K 10K L 50K 9K
10	VOL.UP output	Lo active	Motor volume control. Defined as Lo when VOL.UP.
11	VOL.DOWN output	Lo active	Motor volume control. Defined as Lo when VOL.DOWN.
12	TUNED input	Hi active	Lo is input when the tuner is being tuned. "TUNED" lights up in the FL display. Functions only during TUNER FUNCTION and normally does not function.
13	STEREO input	Hi active	Lo is input when the tuner receives a stereo broadcasting. "STEREO" lights up on the FL display. Does not function when the forcible monaural is ON. Functions only during TUNER FUNCTION and normally does not function.
14	JOG 1 input	Pulse Lo input Normally H	JOG counterclockwise direction input. The input sensitivity is the same as the conventional model. (1 click, 1 step?)
15	JOG 2 input	Pulse Lo input Normally H	JOG clockwise direction input. The input sensitivity is the same as the conventional model. (1 click, 1 step?)
16-18	KEY SCAN input		KEY SCAN input of the unit key.
29	Destination select	H/L	H:/KU series model (including /SD) L:/HY series model (including /HL, YP)
32	DSP input level sensitivity	Analog input	0 to 5V input level is input to DSP. When the input level exceeds 2.1V, (ATT)"OVERLOAD" lights up on the FL display. Functions only when analog signals (including AUTO) are input to the DSP. Does not function when the front speaker is set to "LARGE" or in a 2ch playback (including DIRECT). When the front speaker is set to "SMALL", this port functions in 2ch playback (including DIRECT). AC-3 model only.
33	OL.DETECT input	Lo active	Input of the protection circuit as OVERLOAD DETECTOR. When Lo is input, this port opens relays other than the AC relay. "OVERLOAD" flashes on the 8th digits of the FL display for five seconds.

Pin No.	Port Function	Logic	Function
34	DC.DETECT input	Lo active	Input of the protection circuit as DC DETECTOR. When Lo is input, this port opens relays other than the AC relay. "POWEROFF" flashes on the 8th digits of the FL display.
35, 36	VIDEO IC CONT. output	H/L Depending on LA7952	2-bit parallel control for the video function IC. Refer to SW specification.
38	RESET	Lo active	Same specification as VSX-605S
39 40	Oscillation input Oscillation output		7.7MHz (ASS1055)
46	VIDEO signal MUTE output	Lo active	Output for muting MOTOR OUT Becomes H when in the audio FUNCTION.
30	RDS decoder VDD ON/OFF and FM/AM selection	H active	Turns ON/OFF the RDS decoder Tr switch for VDD. Lo when in AM and Hi in FM of the function tuner. Lo when the power is OFF. H at other times even when functions other than TUNER are set.
31	RF ATT ON/OFF output	H active	Turns the Tr switch of the RF attenuator ON/OFF. Lights up "RF ATT" in FL when the Tr switch is ON. Operates only when the system is in TUNER FUNCTION mode. Normally, it is set to Lo.
58	TC9299 ST output	Depending on TC9299	Serial control STROBE for the electric volume (for REAR, CENT., SUB WF) TC9299 (x2). 3 lines of 58, 61, and 62 (AC-3 model only).
59	TC9162 ST output	Depending on TC9162	Serial control STROBE for the function IC TC9162. 3 lines of 59, 61, and 62 (AC-3 model only).
60	TC9273 ST output	Depending on TC9273	Serial control STROBE for the function IC TC9273. 3 lines of 60, 61, and 62.
61	SYS.DATA output	Depending on TC9273, TC9162, TC9299, and LM7001	Controls PLL IC, AUDIO FUNC. IC, E.VOL. IC with a serial control data. (TC9162 and TC9299 are only for AC-3 model)
62	SYS.CK output	Depending on TC9273, TC9162, TC9299, and LM7001	Controls PLL IC, AUDIO FUNC. IC, E.VOL. IC with a serial control clock. (TC9162 and TC9299 are only for AC-3 model)
63	PLL CE. output	Depending on LM7001	CHIP ENABLE for the tuner PLL IC serial control. 3 lines of 61, 62, and 63
64	T.MUTE ON/OFF output	H active	Muting control for the tuner output. Muting timing is the same as the conventional model. Set to H in functions other than TUNER.
66	TUNER forcible monaural ON/OFF output	H active	Set to H when the forcible monaural is ON in the MPX mode of the TUNER function.
51	HP.RY ON/OFF output	H active	Turns ON/OFF the Tr switch for the headphone RY.
52 50 49	SP-A RY SP-B RY FRONT RY ON/OFF output	H active	Turns ON/OFF the Tr switch for the front SP to be connected in series. Logic is as follows. 52 50 49 SP-A ON H Lo H SP-B ON Lo H H A,B ON Lo Lo H A,B OFF Hi Hi Lo

Pin No.	Port Function	Logic	Function
48	R.C. RY ON/OFF output	H active	Turns ON/OFF the Tr switch for the rear, center SP RY.
48-52	Protect operation		RY for protection is not provided for this model. The following functions are performed by setting ports 58 to 62 to Lo. Muting when power ON Instantaneous shut-off when power OFF AMP DC protect AMP over loading protect
47	AC RY ON/OFF output	H active	Turns ON/OFF the Tr switch for AC power RY. Lo when stand by, H when power ON.
65	A.MUTE output	Lo active	Controls the audio system muting. Muting timing is the same as the conventional model.
67	LOUDNESS ON/OFF output	H active	Turns ON/OFF the Tr switch for LOUDNESS. "LOUDNESS" lights up on the FL display when ON. Forcibly turned OFF when DIRECT ON.
69-90 (excluding 89)	FL drive segment output Also serves as 72 to 81 KEY SCAN	Lo active	FL driver Main unit KEY SCAN output 81 is dedicated for selecting a destination.
1,2 & 91-100	FL drive grid output	Lo active	FL driver (91 is for AC-3 model only)
7	AC-3 REQ input	Lo active	Communication request from DSP IC to the main body microcomputer.
19	DEM.LOCK input	Lo active	Lo is input when the demodulator IC is locked with the AC-3 RF signal. For models not equipped with a demodulator, the port serves as an output port.
20	DIR LOCK input	Lo active	Lo is input when the DIR is locked with the digital input signal.
21	AC-3 RST output	Lo active	Resets DSP.
22	AC-3 CK output		DSP serial control clock output. Refer to the timing chart.
23	AC-3 OUT output		Data from DSP to the microcomputer. Refer to the timing chart.
24	AC-3 DT output		Outputs the DSP serial control data. Refer to the timing chart.
25	AC-3 CS output	Lo active	Outputs a chip select of the DSP serial control. Refer to the timing chart.
26	AD/DIR	H/L	DSP MASTER/SLAVE select output. When analog signal is input:MASTER should be Lo. When the digital and RF signals are input:SLAVE should be H.
27	AC-3 STOP output	H active	Stops the DSP crystal oscillation and internal PLL oscillation. Set to H only when 2ch STEREO (including DIRECT) with the front speaker is set to "LARGE". Set to Lo when others.

■ PM4007A (DOLBY DIGITAL ASSY : IC9071)

● Pin Function

Pin No.	Pin Name	I/O	Description	Pin No.	Pin Name	I/O	Description
1	GND	–	—–	31	A7	O	FOOIN
2	VDD	–	—–	32	GND	–	—–
3	RESET	I	FDS2H	33	VDD	–	—–
4	OSCON	I	FDS2H	34	A12	O	FOOIN
5	DATA	I	FDS2H	35	A14	O	FOOIN
6	MCK	I	FDS2H	36	WEB	O	FOO1
7	MLTB	I	FDS2H	37	A13	O	FOOIN
8	IDST	O	FOOI	38	A8	O	FOOIN
9	IDCK	O	FOOI	39	A9	O	FOOIN
10	IDO	O	FOOI	40	GND	–	—–
11	TMO	I	FIDI	41	A11	O	FOOIN
12	ECCK	O	FIDI	42	OEB	O	FOOI
13	DEN	O	FIDI	43	A10	O	FOOIN
14	DRY	O	FIDI	44	DB7	B	BOW4
15	MSYC	O	FIDI	45	DB6	B	BOW4
16	TM1	I	FIDI	46	DB5	B	BOW4
17	A0	O	FOOIN	47	DB4	B	BOW4
18	A1	O	FOOIN	48	DB3	B	BOW4
19	A2	O	FOOIN	49	DB2	B	BOW4
20	A3	O	FOOIN	50	DB1	B	BOW4
21	A4	O	FOOIN	51	DB0	B	BOW4
22	A5	O	FOOIN	52	VDD	–	—–
23	TM2	I	FIDI	53	GND	–	—–
24	TM3	I	FIDI	54	T11	I	FIDIN
25	XOUT	O	OSB6	55	VIN	I	OSB6
26	XIN	I	OSB6	56	VOUT	O	OSB6
27	XEXT	I	FIDI	57	T12	I	FIDIN
28	GND	–	—–	58	T13	I	FIDIN
29	VDD	–	—–	59	TLDB	I	FIDIN
30	A6	O	FOOIN	60	TCK	I	FIDIN

Pin No.	Pin Name	I/O	Description	Pin No.	Pin Name	I/O	Description
61	TRP	O	FOOI	81	AVDD	O	AVDD *1
62	TD0	O	FOOI	82	CPIN	O	VIN *1
63	PD0	O	BOO8	83	CMIN	O	VII *1
64	T14	I	FIDIN	84	AGND	O	AGND *1
65	PDDIS	I	FIDIN	85	TM4	O	FIDI
66	MUTO	O	FOOI	86	VDD	O	—
67	T15	I	FIDIN	87	DIN	O	FIDIH
68	VLDY	O	FOOI	88	DOUT	O	FOOI
69	DASYO	O	FOOI	89	DOUTB	–	FOOI
70	DAOUT	O	FOOI	90	C9M	O	FOOIN
71	T16	I	FIDIN	91	GND	O	—
72	T17	I	FIDIN	92	WINGT	O	FOOI
73	T18	I	FIDIN	93	SYST0	O	FOOI
74	C2F1	O	FOOI	94	SYST1	O	FOOI
75	C2F0	O	FOOI	95	ADST0	O	FOOI
76	C1F1	O	FOOI	96	ADST1	O	FOOI
77	C1F0	O	FOOI	97	TM5	O	FIDI
78	MUTI	I	FIDIN	98	BUNR1	O	FIDI
79	VDD	–	—	99	AGND	O	AGND *2
80	GND	–	—	100	AVDD	O	AVDD *2

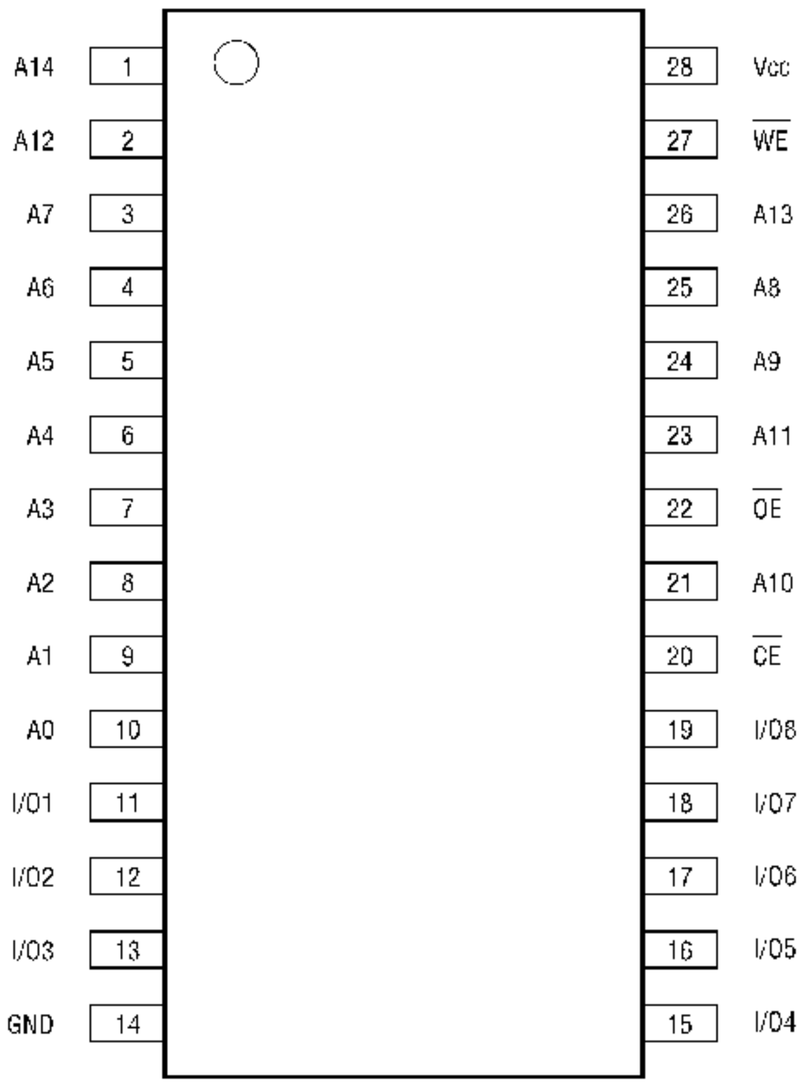
*1: Connected to a high-speed comparator (AACP25NA).

*2: Connected to a PLL macro (AAPLLMFC).

■ LH52256AN-70LL (DOLBY DIGITAL ASSY : IC9091)

● Pin Arrangement

(Top View)



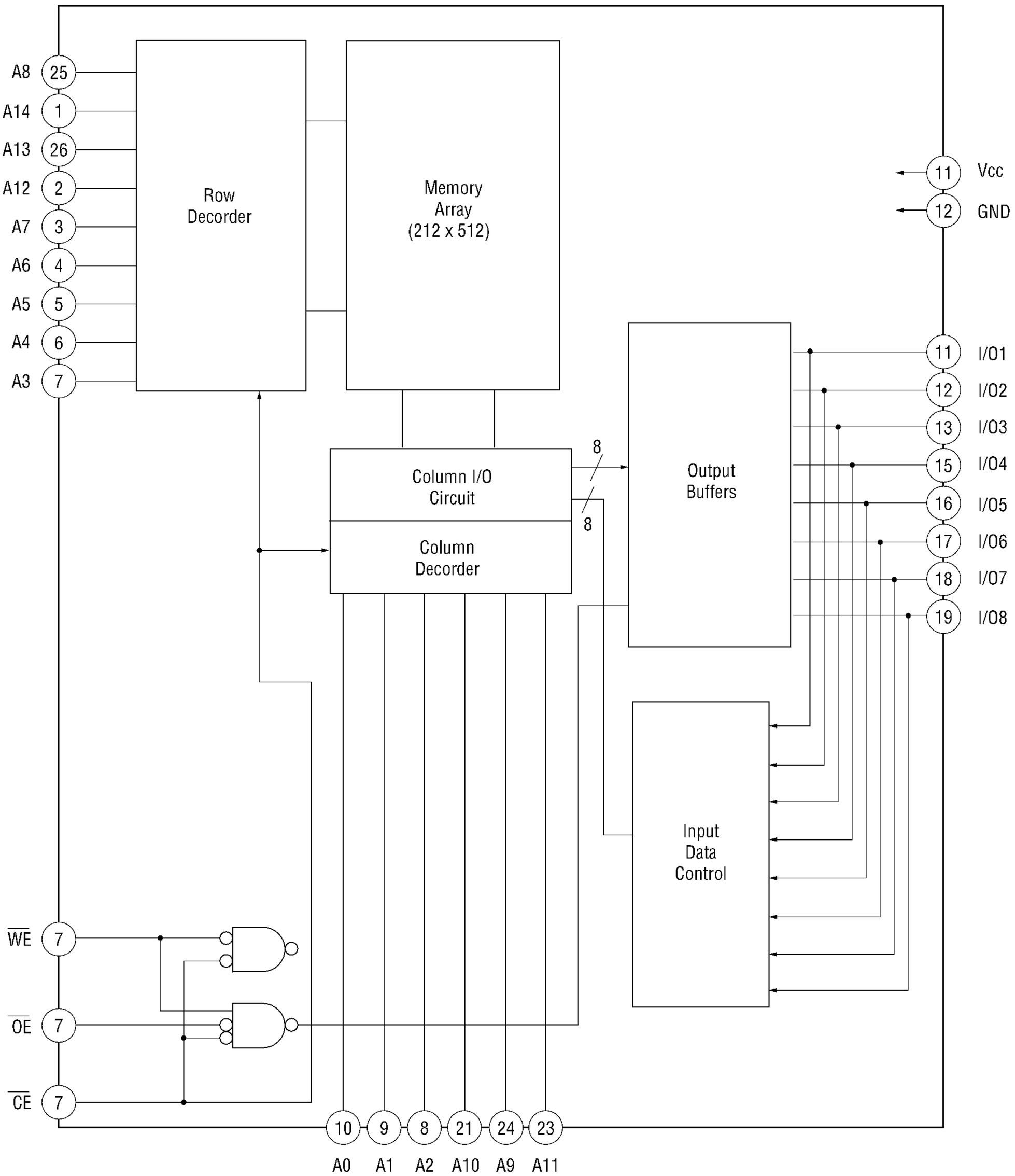
● Pin Function

Pin Name	Function
A0 to A14	Address Inputs
WE	Write Enable Input
CS	Chip Select
OE	Output Enable Lnput
I/O1 to I/O8	Data input/Output
Vcc	Power
Vss	Groud

● Operation Mode

$\overline{CE}$	$\overline{WE}$	$\overline{OE}$	Mode	I/O1 to I/O8	Power supply current
H	*	*	Standby	High impedance	Standby(I_{SB})
L	L	*	Write	Data input	Operation(I cc)
L	H	L	Read	Data output	Operation(I cc)
L	H	H	Output disable	High impedance	Operation(I cc)

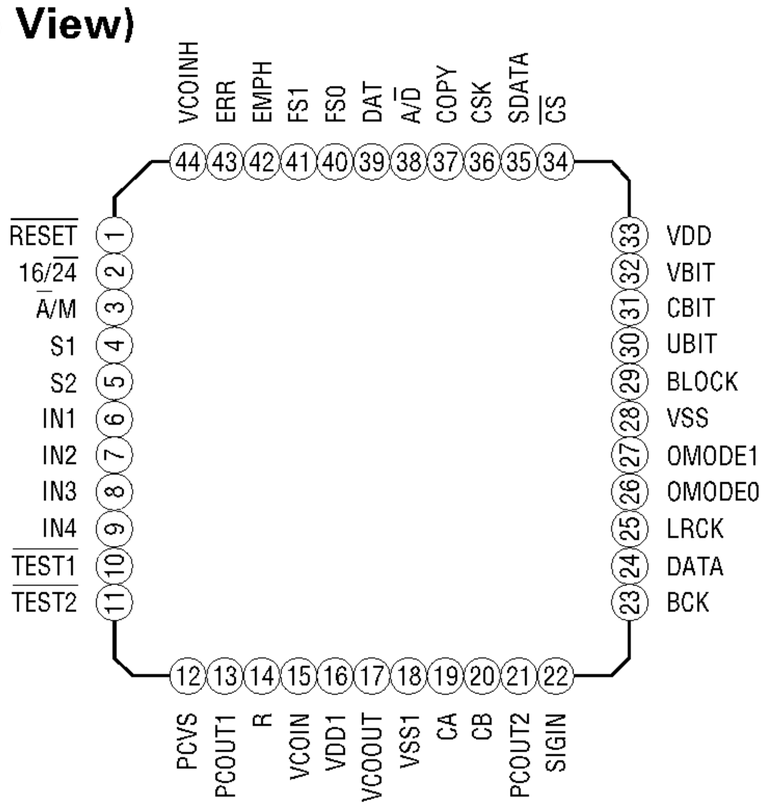
● Block Diagram



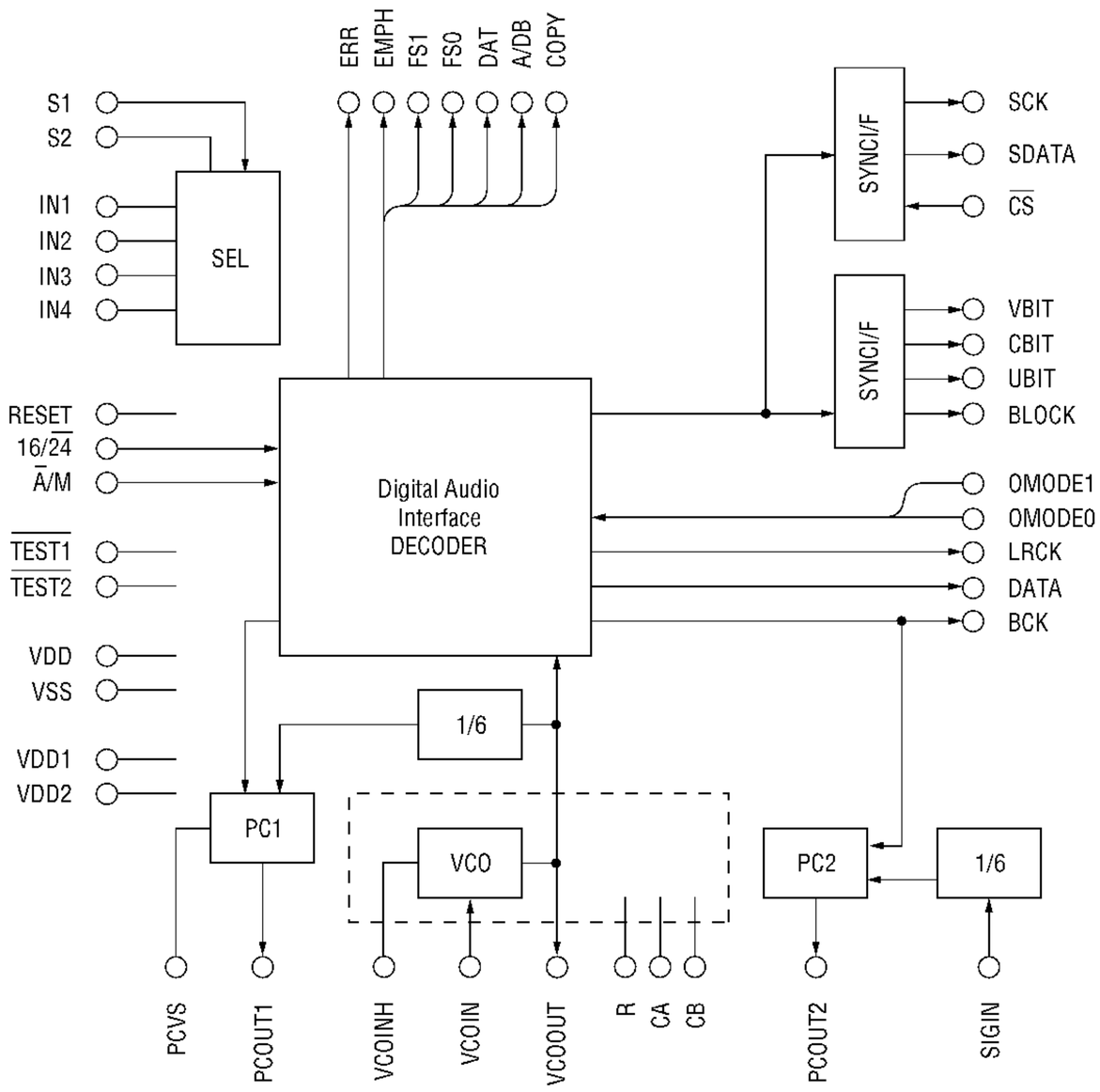
■ CD0004AF (DOLBY DIGITAL ASSY : IC9121)

● Pin Arrangement

(Top View)



● Block Diagram



● Pin Function

Pin No.	Pin Name	I/O	Description
1	$\overline{\text{RESET}}$	IS	Power ON reset input. “L”:Reset.
2	16/$\overline{24}$	IT	Input format selection. With pull-up resister.
3	$\overline{\text{A}}$/M	IT	Input format selection. With pull-up resister.
4	S1	IT	Input selection 1
5	S2	IT	Input selection 2
6	IN1	IT	Data input 1
7	IN2	IT	Data input 2
8	IN3	IT	Data input 3
9	IN4	IT	Data input 4
10	$\overline{\text{TEST1}}$	IT	Test pin 1. Normally “H” or open. With pull-up resister.
11	$\overline{\text{TEST2}}$	IT	Test pin 2. Normally “H” or open. With pull-up resister.
12	PCVS	–	VCO free-running frequency setting input
13	PCOUT1	–	Phase comparator output 1
14	R	–	Connected to the VCO adjusting resistor.
15	VCOIN	–	VCO control voltage input
16	VDD1	–	VCO power supply
17	VCOOUT	–	VCO output (384 fs)
18	VSS1	–	VCO GND
19	CA	–	VCO adjusting capacity connection
20	CB	–	VCO adjusting capacity connection
21	PCOUT2	–	Phase comparator output 2
22	SIGIN	IT	External VCO input

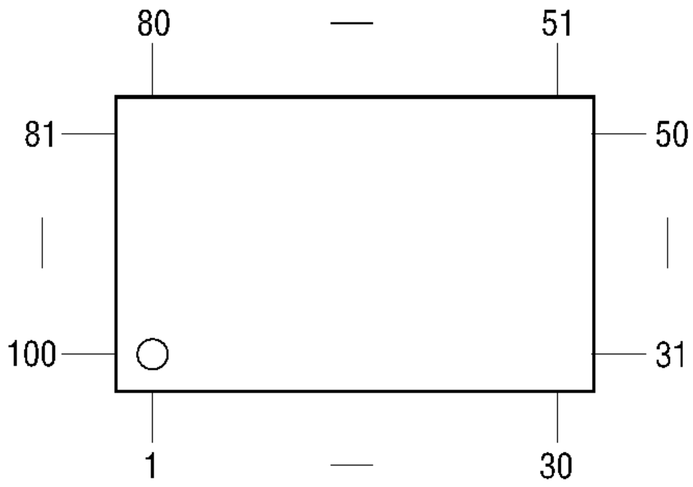
Pin No.	Pin Name	I/O	Description
23	BCK	O	Demodulation data bit clock output (64 fs)
24	DATA	O	Demodulation audio data output
25	LRCK	O	Demodulation data LR clock output. “H”:L channel.
26	OMODE0	O	Data output format selection 0.
27	OMODE1	O	Data output format selection 1.
28	VSS	–	Logic GND
29	BLOCK	O	Block start output
30	UBIT	O	User data output
31	CBIT	O	Channel status output
32	VBIT	O	Validity output
33	VDD	–	Logic power supply
34	$\overline{CS}$	IT	Chip select input. “L”:Selected.
35	SDATA	OT	Serial data output
36	SCK	IT	Serial clock input
37	COPY	O	Copy prohibition information output
38	A/$\overline{D}$	O	Audio/digital data information output
39	DAT	O	DAT information output
40	FS0	O	Sampling frequency information output 0
41	FS1	O	Sampling frequency information output 1
42	EMPH	O	Emphasis information output
43	ERR	O	Data reading error output. “H”:Error occurred.
44	VCOINH	IT	Internal VCO oscillation stop input. “H”:Stops.

IS : Schmidt level input
IT : TTL level input
O : CMOS level output
OT : CMOS level tri-state output

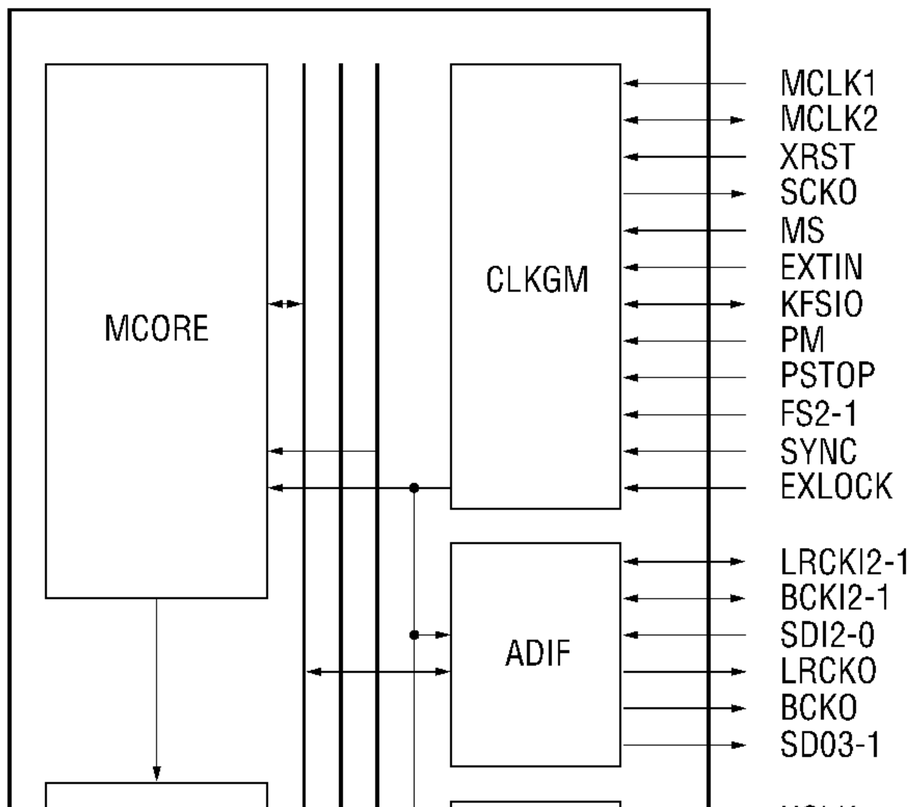
■ MB86342A (DOLBY DIGITAL ASSY : IC9301)

● Pin Arrangement

(Top View)



● Block Diagram



● Pin Function

No.	Pin Name	I/O	Description
1	XRST	I	DSP reset signal input
2	EXTIN	I	System clock signal input (384 fs)
3	VDD	Power	—
4	VSS	GND	—
5	MCLK1	I	DSP core clock oscillation input
6	MCLK2	I/O	DSP core clock oscillation input/output
7	KFSIO	I/O	Audio system clock input/output (384 fs)
8	SCKO	O	DSP core system clock signal output
9	PM	I	Test pin (Normally, clipped to GND.)
10	PSTOP	I	PLL internal oscillation and crystal oscillation termination setting signal input
11	EXLOCK	I	EXTIN lock signal input
12	MS	I	MUCAP master/slave operation switching signal input
13	FS1	I	Sampling frequency switching
14	FS2	I	
15	VSS	GND	—

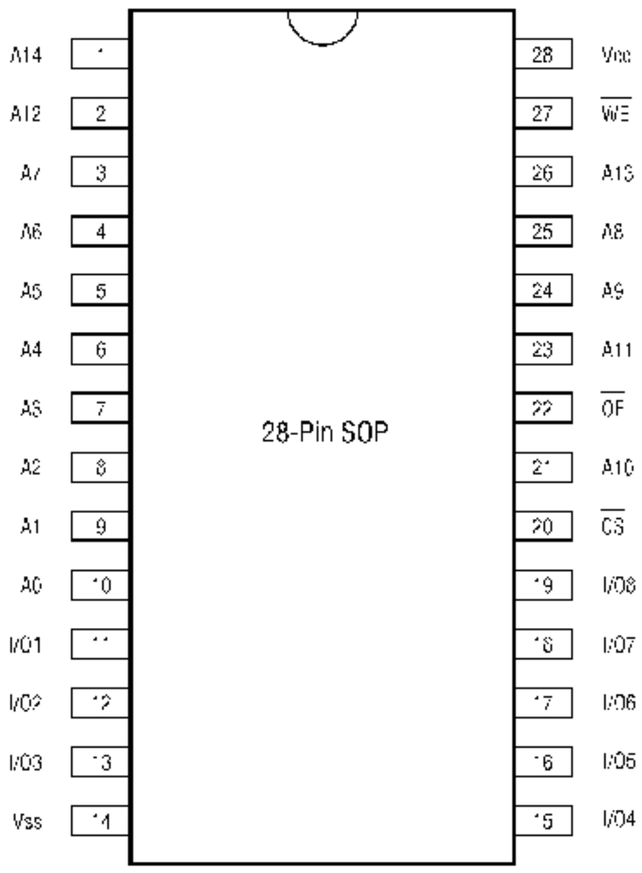
No.	Pin Name	I/O	Description
16	SYNC	I	MUCAP sync/async operation switching signal input
17	LRCKI1	I/O	Serial data input rate clock signal input/output for the audio interface
18	BCKI1	I/O	Serial data input clock signal input/output for the audio interface
19	SDI1	I	Serial data signal input for the audio interface
20	LRCKI2	I	Serial data input rate clock signal input for the audio interface
21	BCKI2	I	Serial data input clock signal for the audio interface
22	SDI2	I	Serial data signal input for the audio interface
23	LRCK0	O	Serial data output clock signal output for the audio interface
24	BCK0	O	Serial data output rate clock signal output for the audio interface
25	SDO1	O	Serial data signal output for the audio interface
26	SDO2	O	
27	SDO3	O	
28	VDD	Power	—
29	VSS	GND	—
30	GP7	I/O	8-bit general port data signal input/output
31	GP6	I/O	
32	GP5	I/O	
33	VDD	Power	—
34	VSS	GND	—
35	GP4	I/O	8-bit general port data signal input/output
36	GP3	I/O	
37	GP2	I/O	
38	GP1	I/O	
39	GP0	I/O	
40	VSS	GND	—
41	HCLK	I	Serial data signal input/output clock signal input/output for the host interface
42	HCS	I	Chip select signal input for the host interface
43	HDIN	I	Serial data signal input for the host interface
44	HDOUT	O	Serial data signal output for the host interface
45	BST	I	Bootstrap operation mode setting signal input
46	MOD	I	MUCAP bus mode operation setting signal input
47	CS	O	External SRAM interface chip select signal output
48	WE	O	External SRAM interface write enable signal output
49	A15	O	External SRAM interface address signal output
50	A14	O	
51	A13	O	
52	A12	O	
53	VDD	Power	—
54	VSS	GND	—
55	A11	O	External SRAM interface address signal output
56	A10	O	
57	A09	O	

No.	Pin Name	I/O	Description
58	A08	O	External SRAM interface address signal output
59	A07	O	
60	A06	O	
61	A05	O	
62	A04	O	
63	A03	O	
64	A02	O	
65	VSS	GND	—
66	A01	O	External SRAM interface address signal output
67	A00	O	
68	D19	I/O	External SRAM interface data signal input/output
69	D18	I/O	
70	D17	I/O	
71	D16	I/O	
72	D15	I/O	
73	D14	I/O	
74	D13	I/O	
75	D12	I/O	
76	D11	I/O	
77	D10	I/O	
78	VDD	Power	—
79	VSS	GND	—
80	D09	I/O	External SRAM interface data signal input/output
81	D08	I/O	
82	D07	I/O	
83	VDD	Power	—
84	VSS	GND	—
85	D06	I/O	External SRAM interface data signal input/output
86	D05	I/O	
87	D04	I/O	
88	D03	I/O	
89	D02	I/O	
90	VSS	GND	—
91	D01	I/O	External SRAM interface data signal input/output
92	D00	I/O	
93	ICCLK	O	Emulator clock signal output
94	ICBRK	I	Emulator external break signal input
95	ICD1	I/O	Emulator address/data signal input/output
96	ICD0	I/O	
97	ICS2	O	Emulator status signal output
98	ICS1	O	
99	ICS0	O	
100	VSS	GND	—

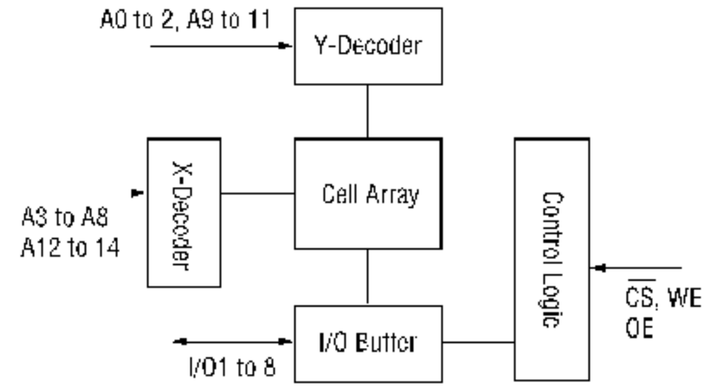
■ KM62V256CLG-7L (DOLBY DIGITAL ASSY : IC9361)

● Pin Arrangement

(Top View)



● Block Diagram



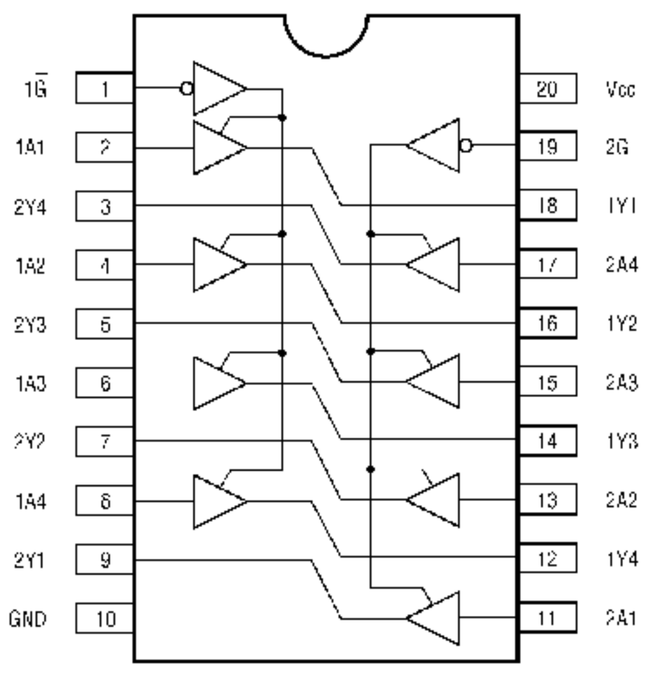
● Pin Function

Pin Name	Function
A0 to A14	Address Inputs
WE	Write Enable Input
CS	Chip Select
OE	Output Enable Lnput
I/O1 to I/O8	Data input/Output
Vcc	Power
Vss	Groud

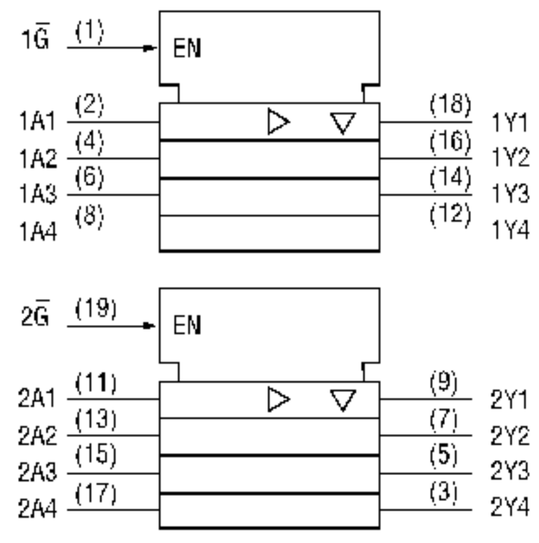
■ TC74HCT244AF (DOLBY DIGITAL ASSY : IC9371)

● Pin Arrangement

(Top View)



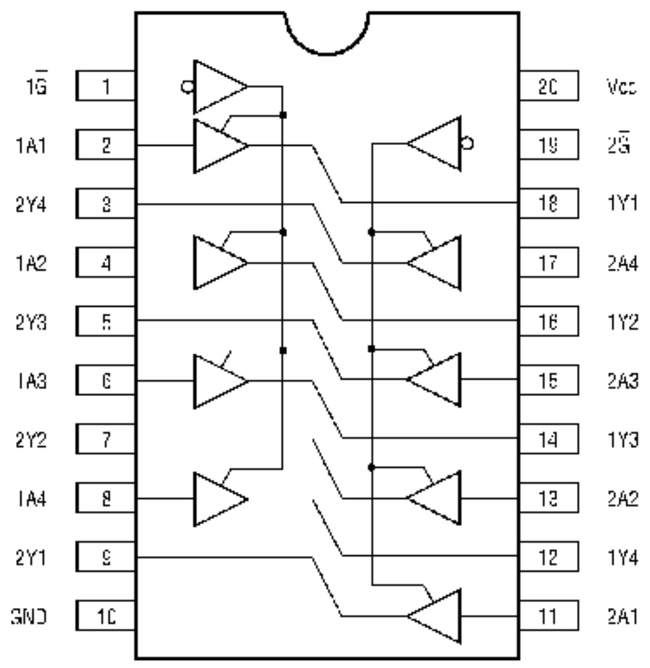
● Block Diagram



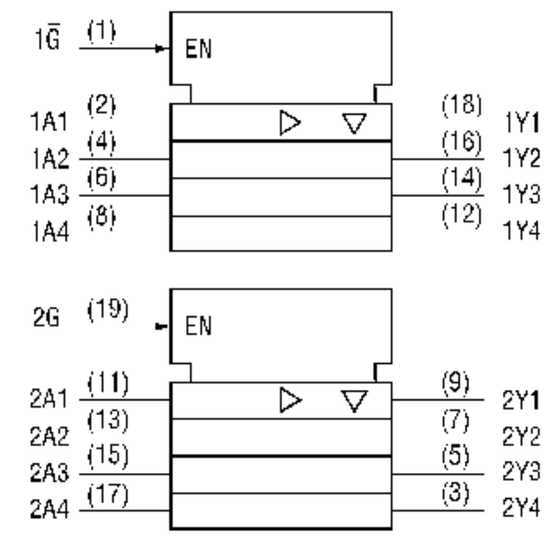
■ TC74LVX244FS (DOLBY DIGITAL ASSY : IC9381)

● Pin Arrangement

(Top View)



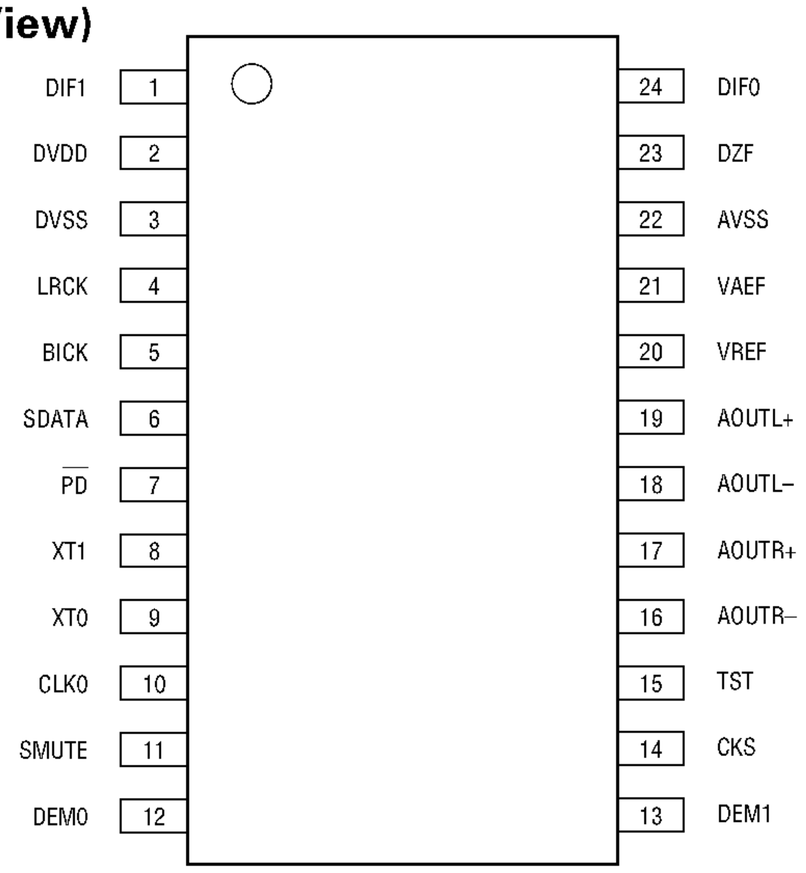
● Block Diagram



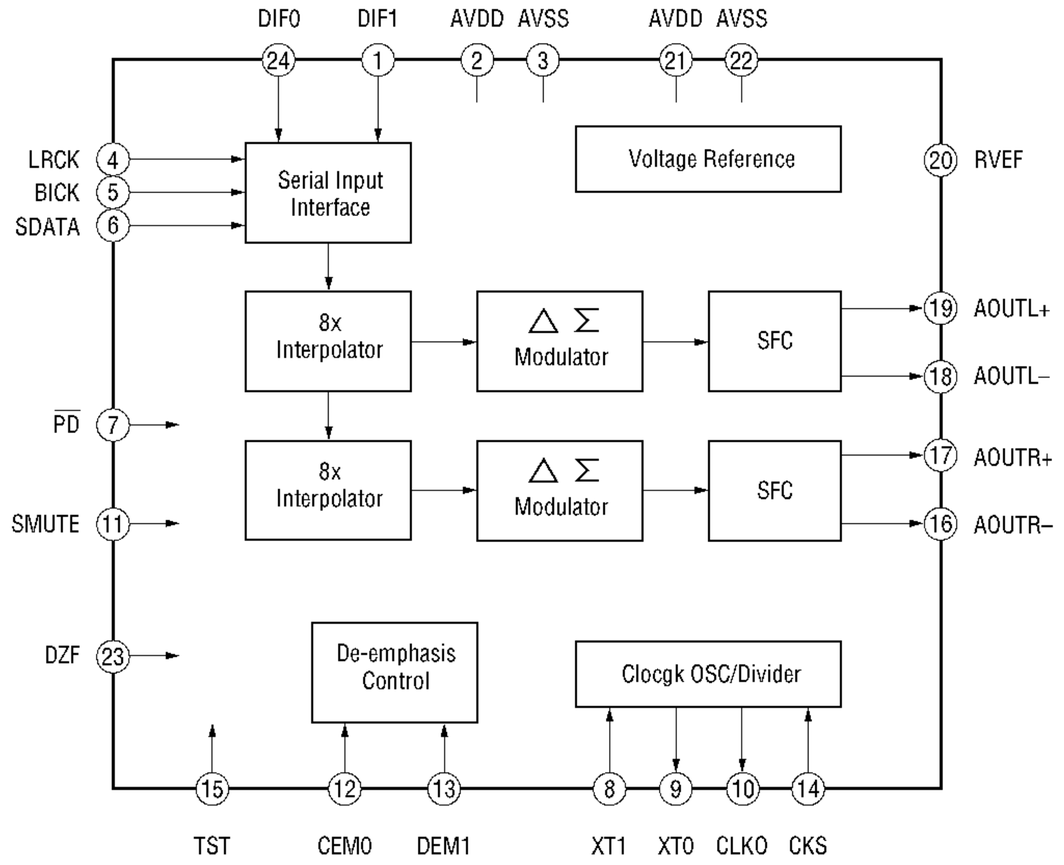
■ AK4319-VM (DOLBY DIGITAL ASSY : IC9401, IC9431, IC9461)

● Pin Arrangement

(Top View)



● Block Diagram

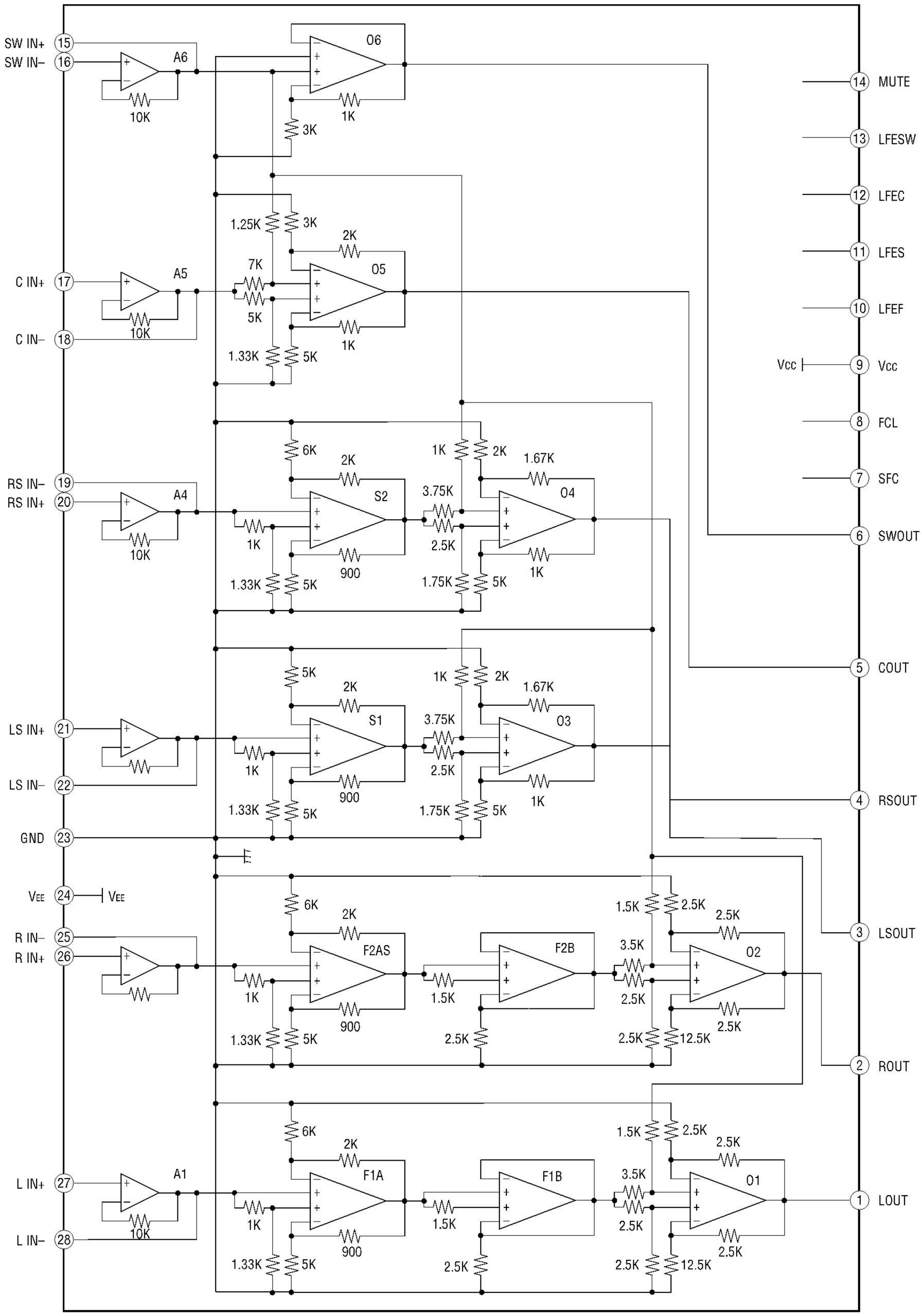


● Pin Function

Pin No.	Pin Name	I/O	Description
1	DIF1	I	Input format (pull-down pin). Compatible with 4 modes.
2	DVDD	–	Digital power supply, +5V
3	DVSS	–	Digital GND
4	LRCK	I	L/R clock. Determines the channel of serial data to be input.
5	BICK	I	Serial bit clock. Clock for latching the serial data.
6	SDATA	I	Serial data input pin. 2's compliment, MSB first.
7	PD	I	Reset pin. When this pin becomes "L", the filter and modulator are reset. When turning on the power, input "L" to reset.
8	XTI	I	Clock input. Connect a crystal oscillator between this pin and XT0 pin, or input an external CMOS clock to XT1. Clock frequencies can be selected with CKS pin.
9	XTO	I	Crystal oscillator output pin. When using a crystal oscillator, connect it to XT1. When using an external clock, does not use this pin.
10	CLKO	O	Oscillator clock output. Outputs XT1 clock with inverted.
11	SMUTE	O	Software muting pin (pull-down pin).When "H", a software muting starts. When "L", it is canceled.
12	DEMO	I	De-emphasize mode. Compatible with three frequencies.
13	DEM1	I	Clock select pin (pull-down pin). "L":CLK=256 fs, "H":CLK=384 fs.
14	CKS	I	Test pin (pull-down pin). Set to Open or "L".
15	TST	I	Rch analog negative output pin
16	AOUTR–	O	Rch analog positive output pin
17	AOUTR+	O	Lch analog negative output pin
18	AOUTR–	O	Lch analog positive output pin
19	AOUTR+	O	Reference voltage output pin, 2.95V (GND reference).
20	VREF	O	Connect a 10µF electrolytic capacitor and 0.1µF ceramic capacitor to AVSS.
21	AVDD	–	Analog power supply pin, +5V
22	AVSS	–	Analog GND
23	DZF	O	Zero input detection. Becomes "H" if no data is input to SDATA pin for 8192 times continuously for both channels.
24	DIF0	I	Input format (pull-down pin). Compatible with 4 modes.

■ PA4025A (DOLBY DIGITAL ASSY : IC9501)

● Block Diagram



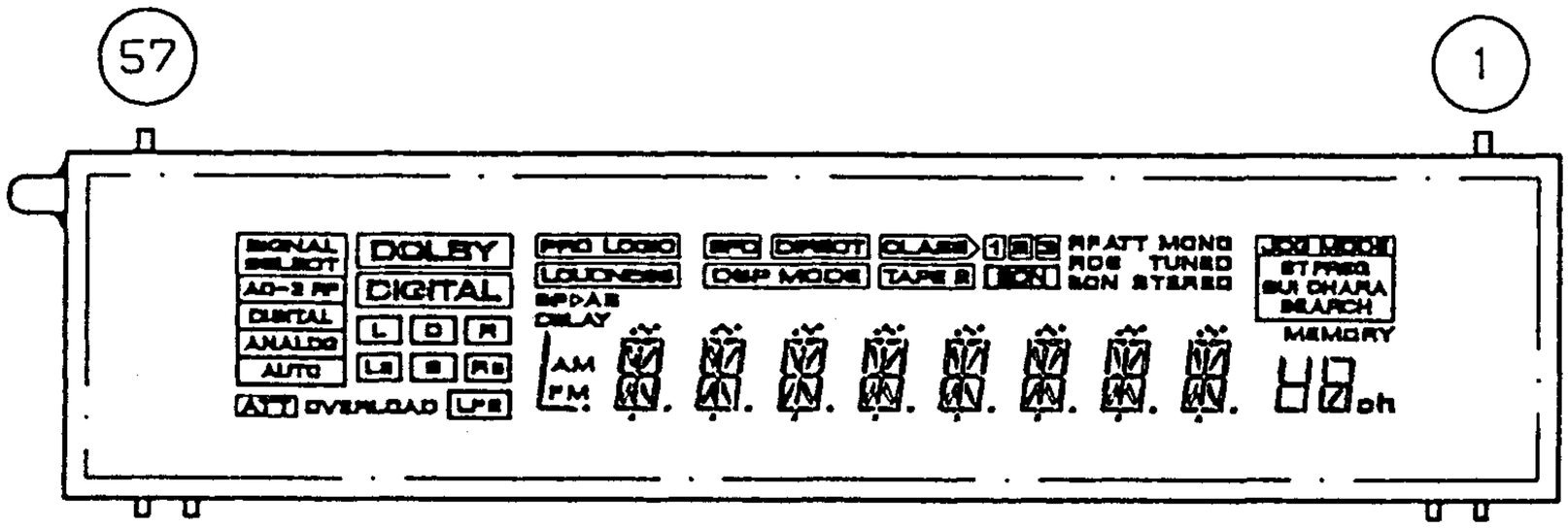
● Pin Function

Pin No.	Pin Name	Description	Pin No.	Pin Name	Description
1	LOUT	Lch output	15	GND	SWch (–) input
2	ROUT	Rch output	16	WINGT	SWch (+) input
3	LSOUT	LSch output	17	SYST0	Cch (+) input
4	RSOUT	RSch output	18	SYST1	Cch (–) input
5	COUT	Cch output	19	ADST0	RSch (–) input
6	SWOUT	SWch output	20	ADST1	RSch (+) input
7	SFC	Gain control (SFC) input	21	TM5	LSch (+) input
8	FCL	Gain control (FCL) input	22	BUNR1	LSch (–) input
9	VCC	VCC	23	AGND	GND
10	LFEF	Gain control (LFEF) input	24	AVDD	VEE
11	LFES	Gain control (LFES) input	25	R IN–	R ch (–) input
12	LFEC	Gain control (LFEC) input	26	R IN+	R ch (+) input
13	LFESW	Gain control (LFESW) input	27	L IN+	L ch (+) input
14	MUTE	Mute input	28	L IN–	L ch (–) input

7.1.2 DISPLAY

■ AAV7034 (V901 : FL/U-COM ASSY)

- **FL Tube**

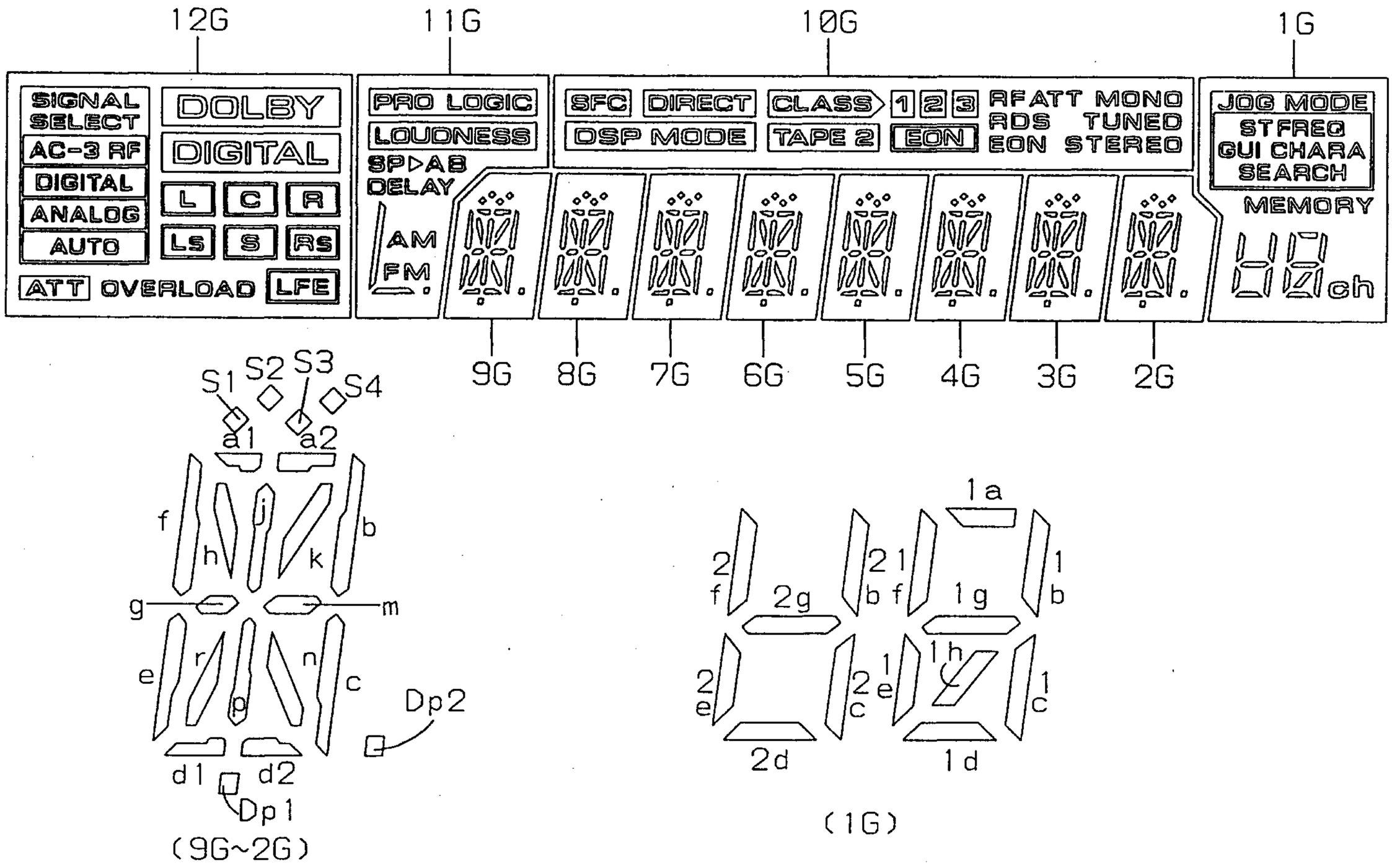


- **Pin Assignment**

PIN NO.	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	F2	F2	NP	NP	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	NX	P2	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	NP	NP	F1	F1
																					2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
																					1	0	9	8	7	6	5	4	3	2	1	0	9	8	7	6	5	4	3	2	1	0	9	8	7	6	5	4	3	2	1	0	9	8	7	6	5	4	3	2	1
																					G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G

NOTE 1) F1,F2 --- Filament
2) NP ------ No pin
3) NX ------ No extend pin
4) DL ------ Datum Line
5) 1G~12G --- Grid

- **Grid Assignment**

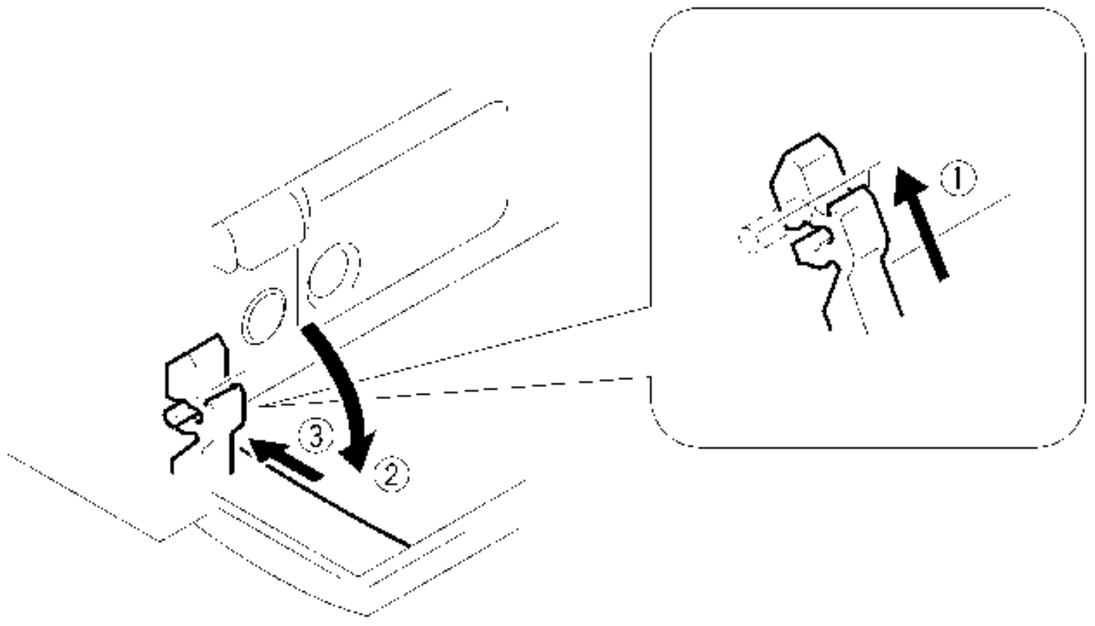


● **Anode Connection**

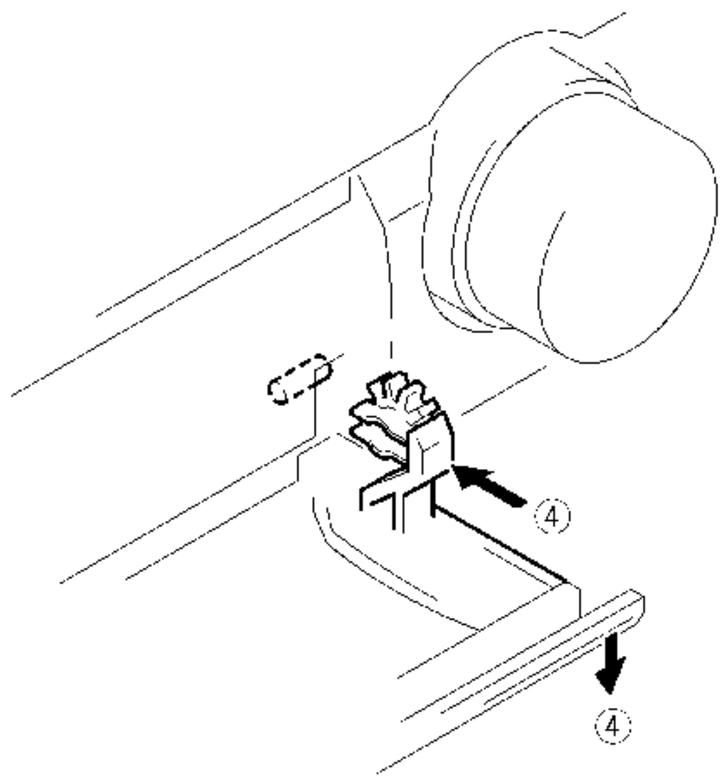
	12G	11G	10G	9G~2G	1G
P1	DOLBY	L	MONO	a1	2b,2c
P2	DIGITAL	▫	TUNED	a2	2g
P3	R	FM	STEREO	h	2d
P4	Ls Rs	AM	RFATT	j	2e
P5	(Ls) (Rs)	DELAY	RDS	k	2f
P6	LFE	B	EON	b	1a
P7	(LFE)	A	3	f	1b
P8	C	SP▷	2	m	1f
P9	(C)	LOUDNESS	1	g	1g
P10	S	PRO LOGIC	EON	c	1c
P11	L	–	CLASS	e	1h
P12	(L)	–	TAPE 2	r	1e
P13	OVERLOAD	–	DIRECT	p	1d
P14	SIGNAL SELECT	–	SFC	n	ch
P15	AC-3 RF	–	DSP MODE	d1	MEMORY
P16	DIGITAL	–	–	d2	SEARCH
P17	ANALOG	–	–	Dp1	CHARA
P18	AUTO	–	–	S1,S3	GUI
P19	ATT	–	–	S4	FREQ
P20	–	–	–	S2	ST
P21	–	–	–	Dp2	JOG MODE

7.2 INSTALLING THE DOOR PANEL

① Insert the door panel at an angle.
② Rotate the panel downward until level.
③ Push the panel straight in.

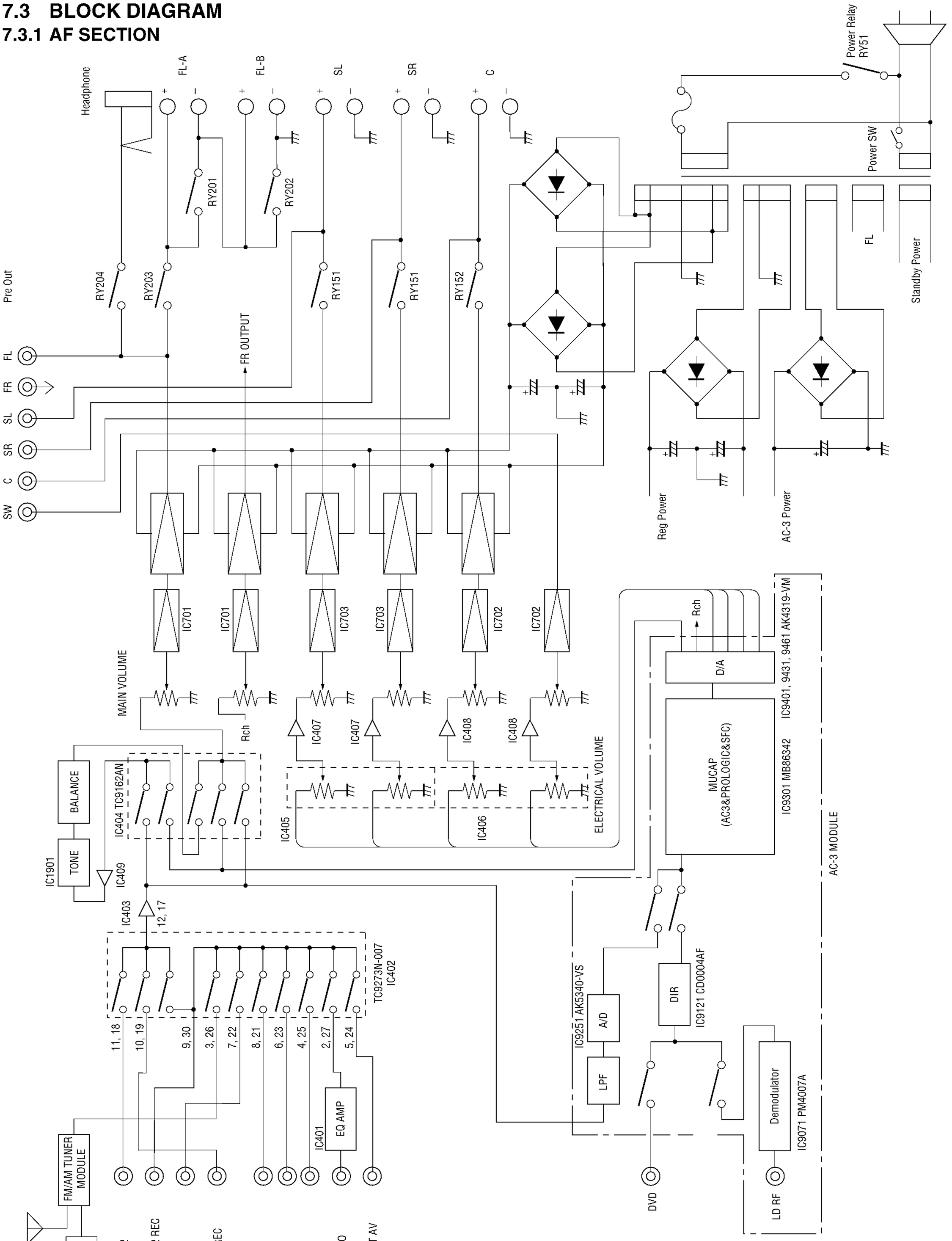


④ While slightly pressing downward, push the door panel in.



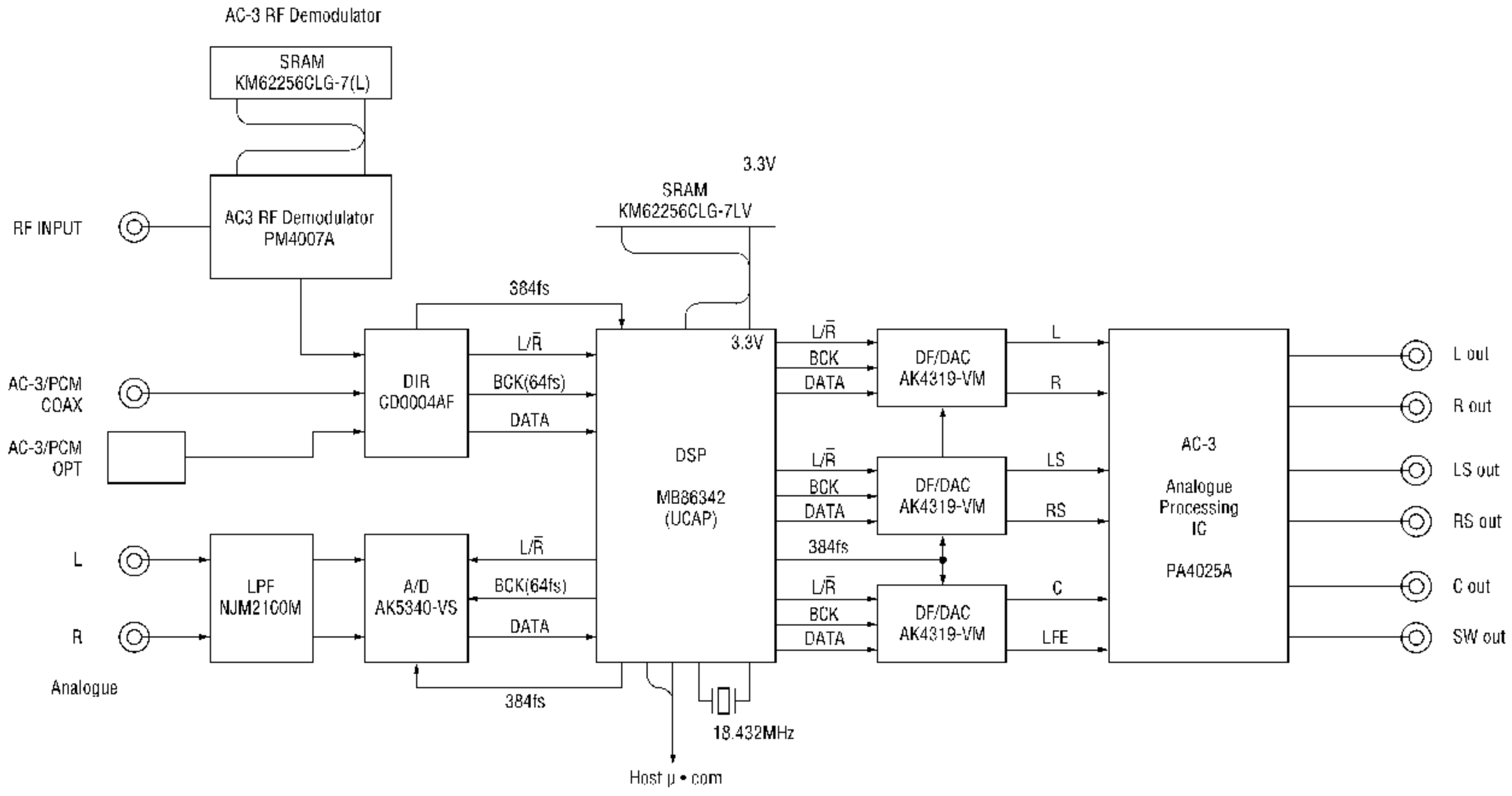
7.3 BLOCK DIAGRAM

7.3.1 AF SECTION

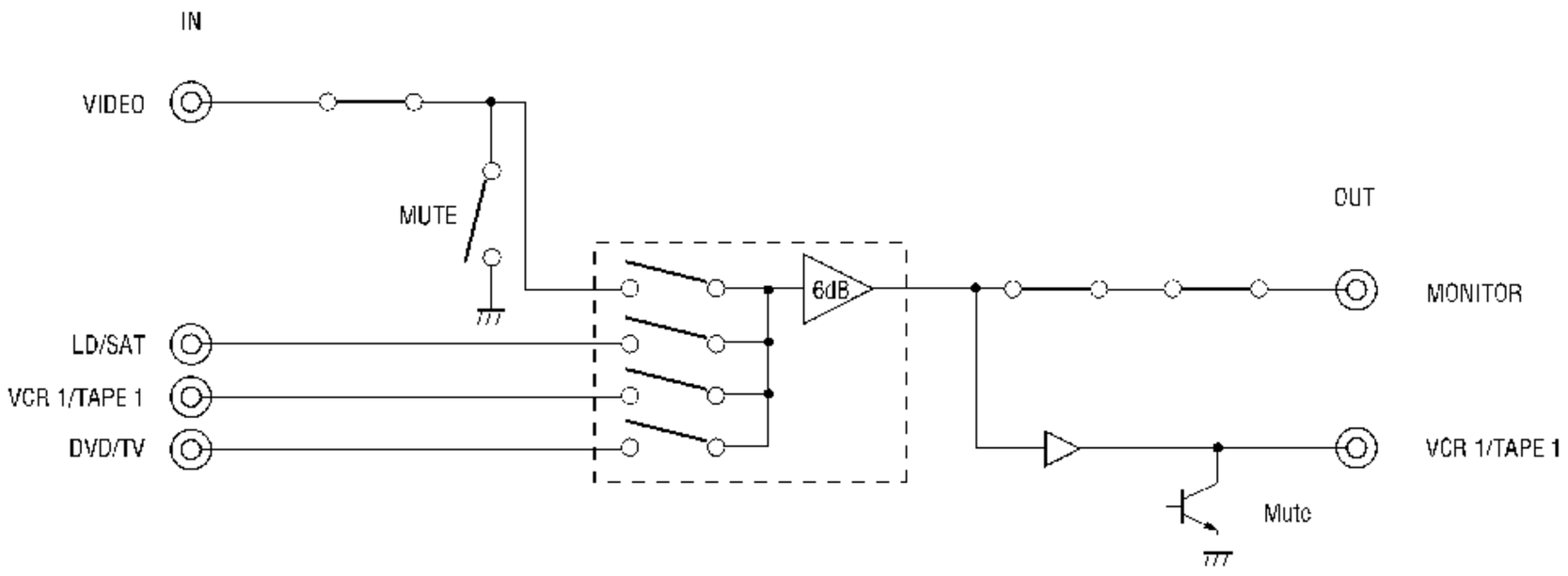


7.3.2 AC-3DECODE ASSY AND VIDEO COMPOSITE SECTION

● AC-3 DECODE ASSY



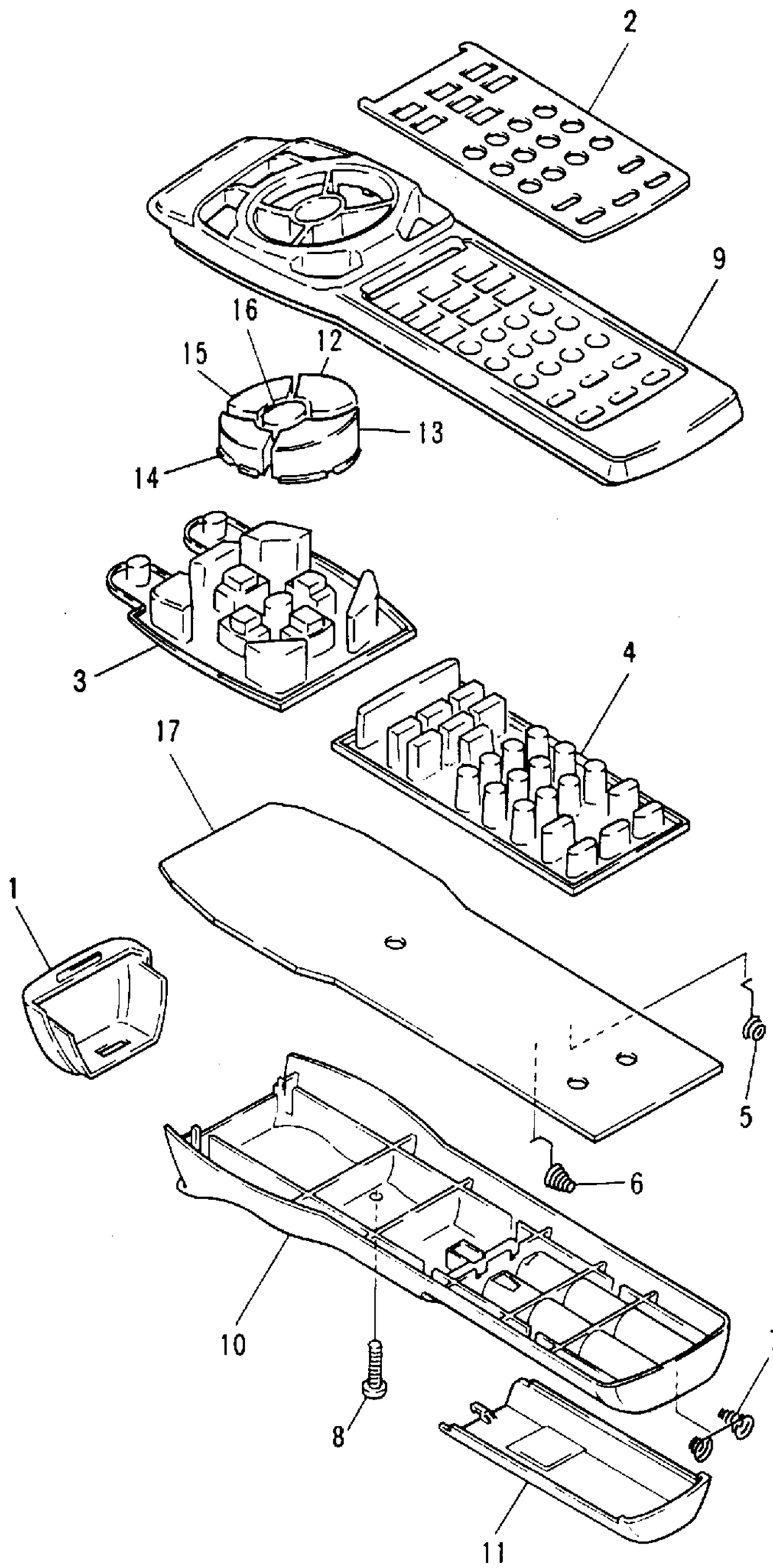
● VIDEO COMPOSITE SECTION



7.4 REMOTE CONTROL UNIT [CU-VSX116 (AXD7106)]

7.4.1 EXPLODED VIEWS AND PARTS LIST

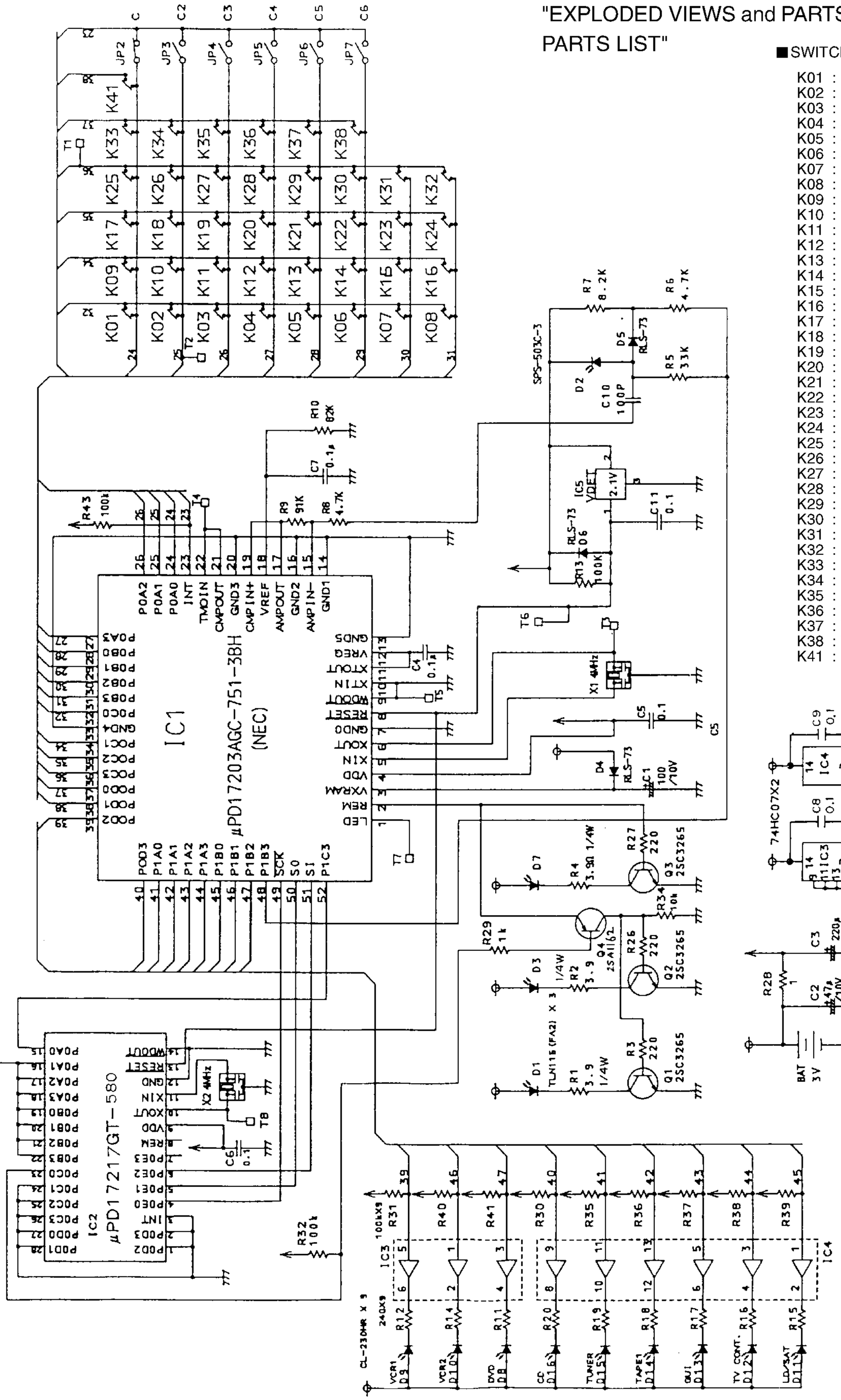
NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screws adjacent to ▼ mark on product are used for disassembly.*



■ **Parts List**

Mark	No.	Description	Parts No.
	1	Filter	AZA7152
	2	Name Plate	AZA7241
	3	Rubber Sheet (A)	AZA7236
	4	Rubber Sheet (B)	AZA7243
	5	Spring (+)	AZB7049
	6	Spring (–)	AZB7050
	7	Spring	AZB7051
	8	Screw	AZB7052
	9	Remo-con Case (A)	AZN7672
	10	Remo-con Case (B)	AZN7326
	11	Battery Cover	AZN7327
	12	Main Key (FF)	AZN7666
	13	Main Key (STOP)	AZN7329
	14	Main Key (REV)	AZN7665
	15	Main Key (PAUSE)	AZN7331
	16	Main Key (PLAY)	AZN7664
NSP	17	PCB	AZW7243

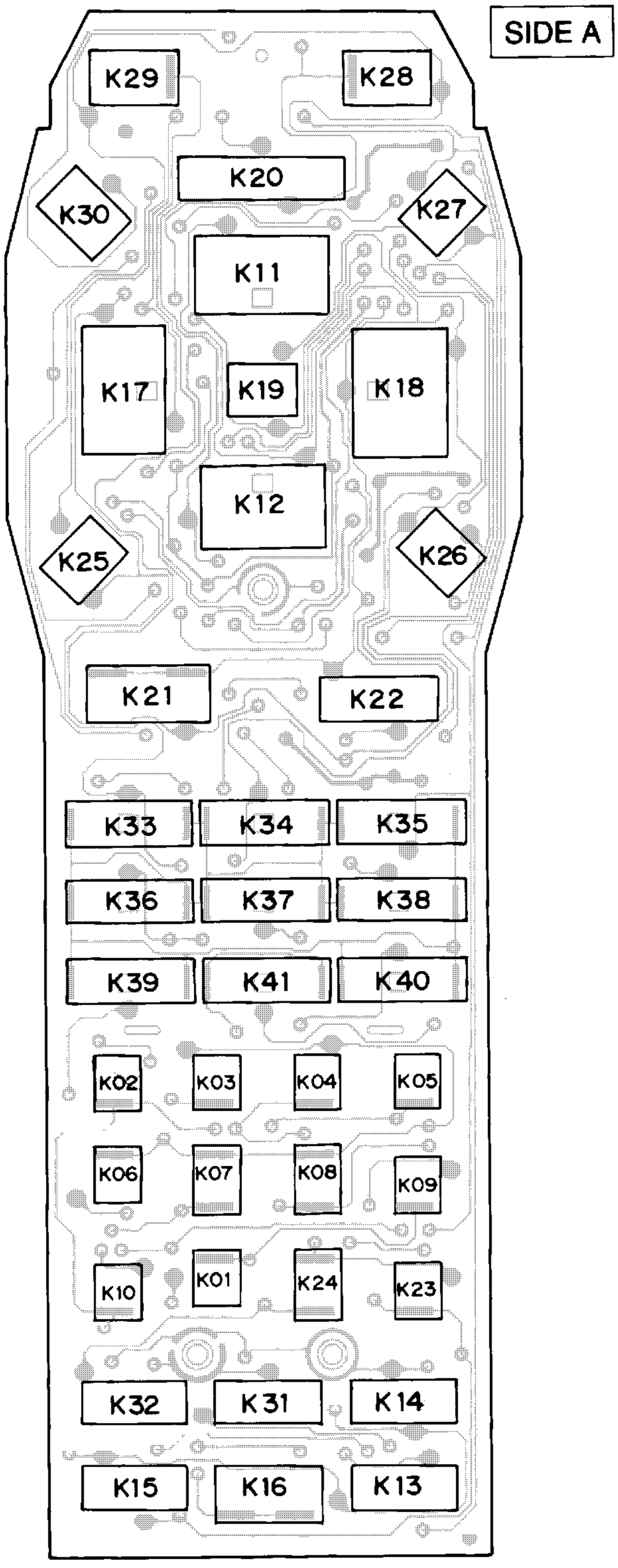
7.4.2 SCHEMATIC AND PCB DIAGRAM

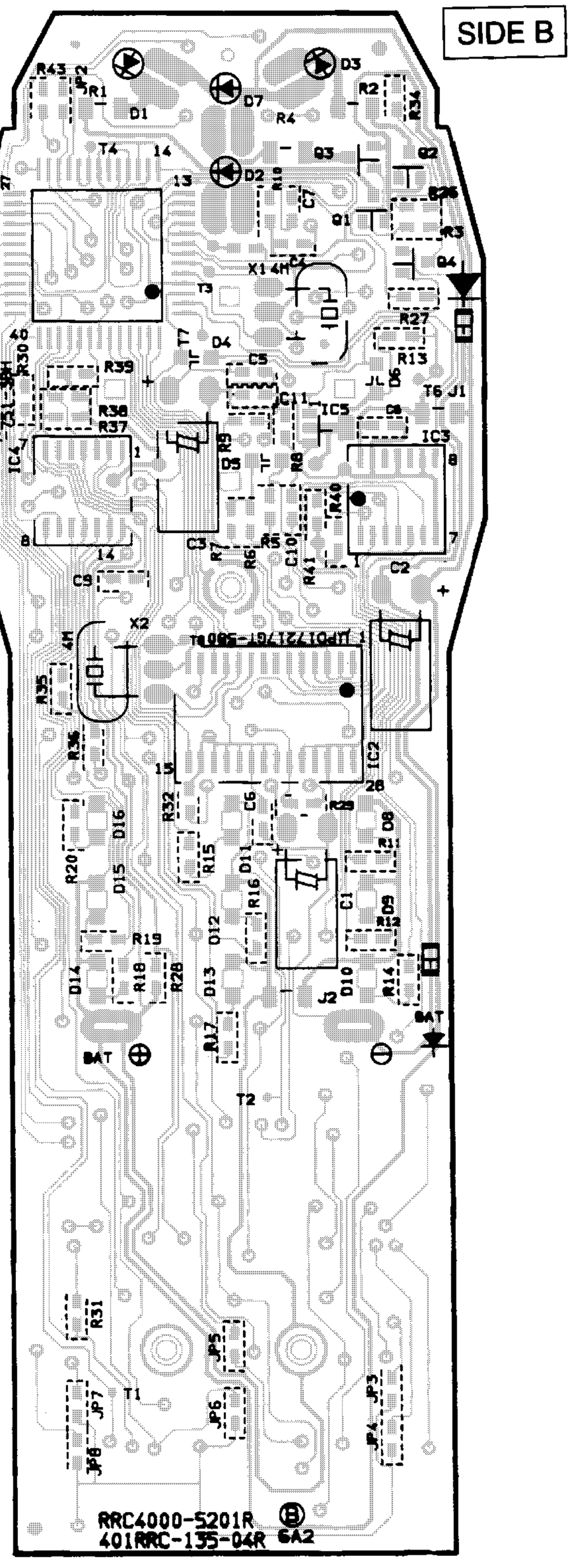


Note : When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST"

■ SWITCHES

K01 : 10 (0)
K02 : 1
K03 : 2
K04 : 3
K05 : 4
K06 : 5
K07 : 6
K08 : 7
K09 : 8
K10 : 9
K11 : ▲II
K12 : ▼■
K13 : SET UP
K14 : MODE CHK
K15 : MULTI OPE.
K16 : SYS. OFF
K17 : ◀◀
K18 : ▶▶
K19 : ▶ ENT.
K20 : POWER
K21 : I◀◀ CH-
K22 : ▶▶I CH+
K23 : 12 (DISC)
K24 : 11 (+10)
K25 : VOL.-
K26 : VOL.+
K27 : TV FUNC.
K28 : TV POWER
K29 : AMP POW.
K30 : MUTING
K31 : LIST
K32 : FUNCTION
K33 : DVD
K34 : LD/SAT
K35 : CD
K36 : VCR1
K37 : TV CONT.
K38 : TUNER
K41 : SURROUND


SIDE A
K29
K28
K20
K30
K27
K11
K17
K19
K18
K12
K25
K26
K21
K22
K33
K34
K35
K36
K37
K38
K39
K41
K40
K02
K03
K04
K05
K06
K07
K08
K09
K10
K01
K24
K23
K32
K31
K14
K15
K16
K13


SIDE B
RRC4000-5201R
401RRC-135-04R
6A2

7.4.3 PCB PARTS LIST

NOTES:
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560Ω	→	*56 × 10¹*	→	*561*	*RD1/4PU 5 6 1 J*
47kΩ	→	*47 × 10³*	→	*473*	*RD1/4PU 4 7 3 J*
0.5Ω	→	*R50*			*RN2H R 5 0 K*
1Ω	→	*1R0*			*RS1P 1 R 0 K*

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62kΩ	→	*562 × 10¹*	→	*5621*	*RN1/4PC 5 6 2 1 F*

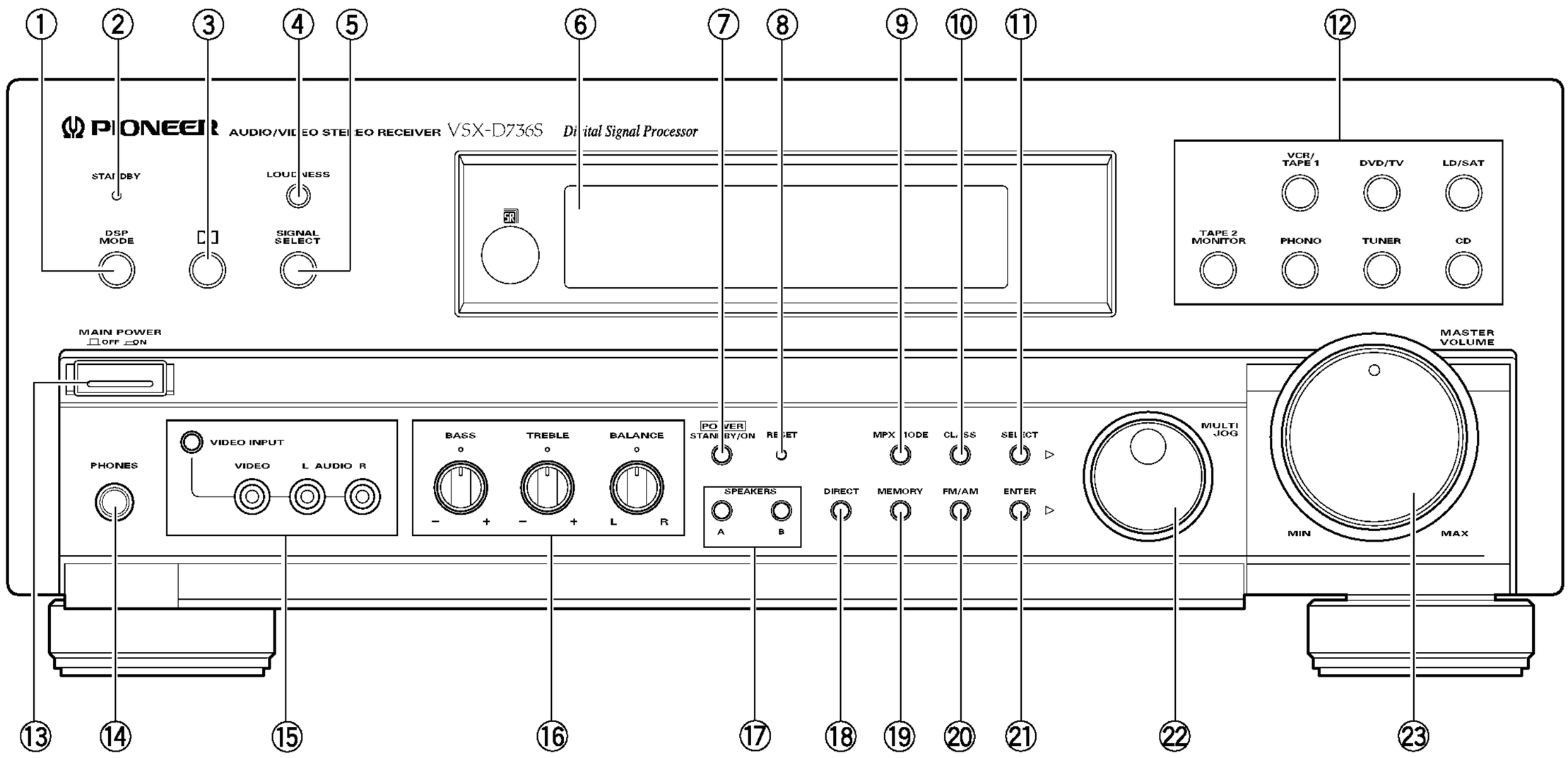
Mark	No.	Description	Parts No.
SEMICONDUCTORS			
	IC1		AZC7275
	IC2		AZC7274
	IC3, IC4		TC74HC07AF
	IC5		RH5VA21AA
	Q4 – Q6		2SA1037
	Q1 – Q3		2SC3265
	D1, D3, D7		SE1003 – C
	D2		SPS – 503C – 3
	D8 – D20	LED	CL – 230HR – CD
	D4 – D6		RLS – 73
CAPACITORS			
	C2		CEAS470M10
	C4 – C7, C11		CKSQYB104K25
	C3		CEAS221M10
	C1		CEAS101M6R3
	C8 – C10		CCSQCH100J50
RESISTORS			
	R2001, R2002		RS1/8S0R0J
	R1, R2 ,R4		RS1/8S3R9J
		Other Resistors	RS1/10S□□□J
OTHERS			
	X1, X2	RESONATOR (4MHz)	KBR – 4.0M

8. PANEL FACILITIES AND SPECIFICATIONS

NAMES OF PARTS

* The size of characters shown in the figure may differ from that on the actual product.

Front panel



① **DSP MODE button**

② **STANDBY indicator**

③ **▯◯ button**

④ **LOUDNESS button**
Press this button when the volume is low to raise the low and high range levels so that the sound can be heard more easily.

⑤ **SIGNAL SELECT button**

⑥ **Display**

⑦ **POWER STANDBY/ON button**

⑧ **RESET button**

⑨ **MPX MODE button**
Use to switch the auto stereo/monaural mode for receiving FM broadcasts. When the received broadcast signal is weak, press this button to set the monaural mode.

⑩ **CLASS button**

⑪ **SELECT button**
Use to switch the control of the MULTI JOG between station mode and frequency mode when operating the tuner.

⑫ **Function buttons**

⑬ **MAIN POWER switch**

⑭ **PHONES jack (Headphone terminal)**

⑮ **VIDEO INPUT button/terminal**
Connect to a video camera, etc.

⑯ **TONE and BALANCE controls**
Use to adjust tone and volume balance.

⑰ **SPEAKERS A, B buttons**
ON/OFF switches for the A and B speaker systems.

⑱ **DIRECT button**
Use to play back sound without going through the tone and balance control circuits. DOLBY MODE, DSP MODE and LOUDNESS also turn off.

⑲ **MEMORY button**

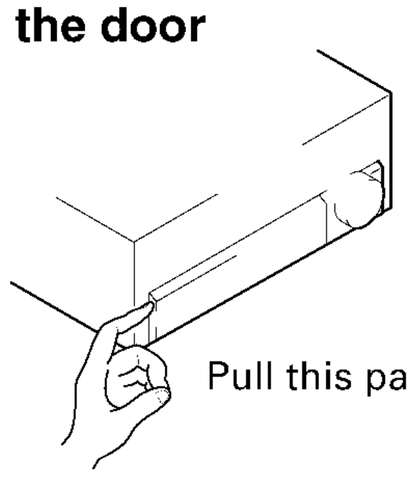
⑳ **FM/AM button**
Use to switch the FM/AM frequency band reception.

㉑ **ENTER button**

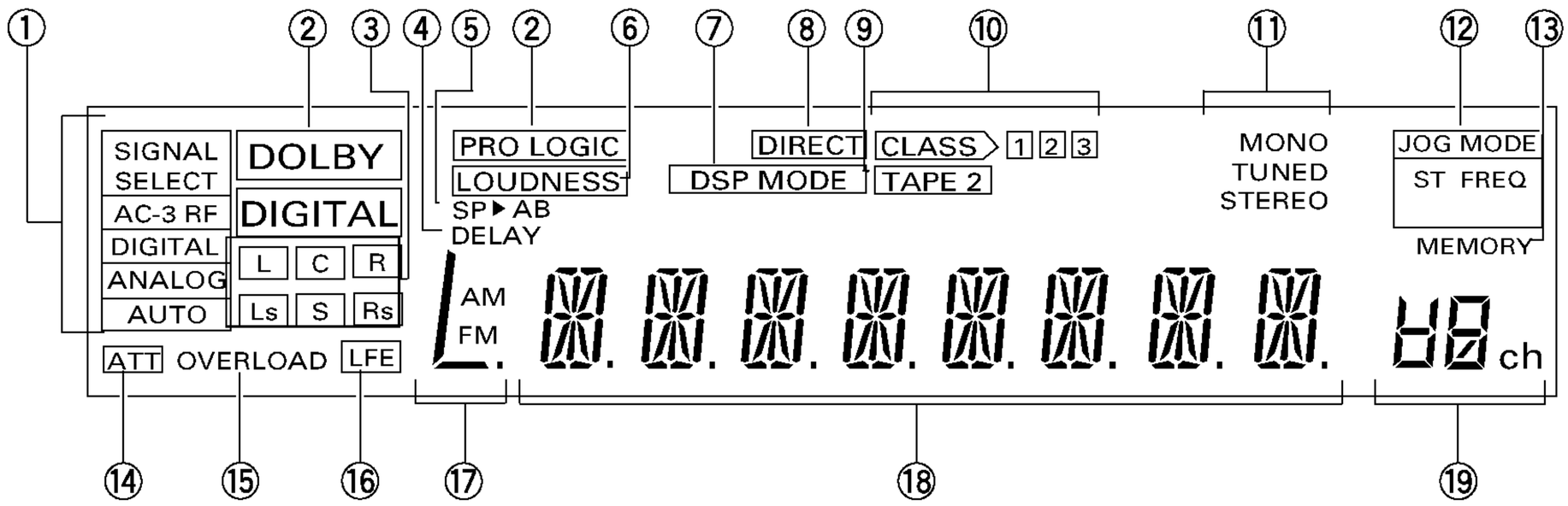
㉒ **MULTI JOG**
Use to select the frequency and station number when operating the tuner.

㉓ **MASTER VOLUME**

How to open the door



Display



① **SIGNAL SELECT indicators**
The input signal format currently selected will light.

② **DOLBY DIGITAL and PRO LOGIC indicators**
"DOLBY" lights when the Dolby mode is ON. There are two Dolby modes-Dolby Digital (AC-3) and Dolby Pro Logic. "DOLBY" and "DIGITAL" light during Dolby Digital, and "DOLBY" and "PRO LOGIC" light when played back in Dolby Pro Logic.

③ **PROGRAM FORMAT indicators**
When playing back in the Dolby Digital (AC-3) mode, the indicator of the channel set for the playback source lights.

④ **DELAY indicator**
Lights when the delay time is being set.

⑤ **Speakers A, B indicator**
The indicator of the speaker system (A, B) selected will light.

⑥ **LOUDNESS indicator**
Lights when LOUDNESS is ON.

⑦ **DSP MODE indicator**
Lights when DSP MODE is selected.

⑧ **DIRECT indicator**
Lights when DIRECT is ON.

⑨ **TAPE 2 indicator**
Lights when TAPE 2 MONITOR is ON.

⑩ **CLASS 1, 2, 3 indicators**
The indicator of the class number selected lights.

⑪ **TUNER indicator**

MONO:
Lights when the monaural mode is set using the MPX MODE button.

TUNED:
Lights when broadcasts are being received.

STEREO:
Lights when stereo broadcasts are received during auto stereo mode.

⑫ **JOG MODE indicator**

ST:
Lights when the station mode is selected.

FREQ:
Lights when the frequency mode is selected.

⑬ **MEMORY indicator**
Lights when station memory mode is selected.

⑭ **ATT indicator**
Lights when INPUT ATT is ON.

⑮ **OVERLOAD indicator**
Lights when input level is excessive when ANALOG is selected (including AUTO) using the SIGNAL SELECT button.

⑯ **LFE indicator**
[LFE] lights when the LFE (Low Frequency Effects) channel is set for the playback source with Dolby Digital. The [LFE] indicator also lights when LFE signals are input.

⑰ **AM/FM indicators**
The indicator of the band currently selected (AM/FM) lights.

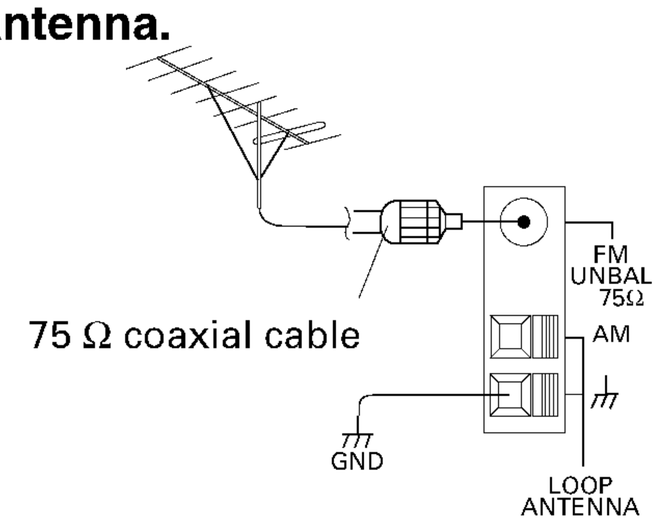
⑱ **CHARACTER display**

⑲ **STATION display**
Indicates the station number currently selected.

CONNECTING DEVICES

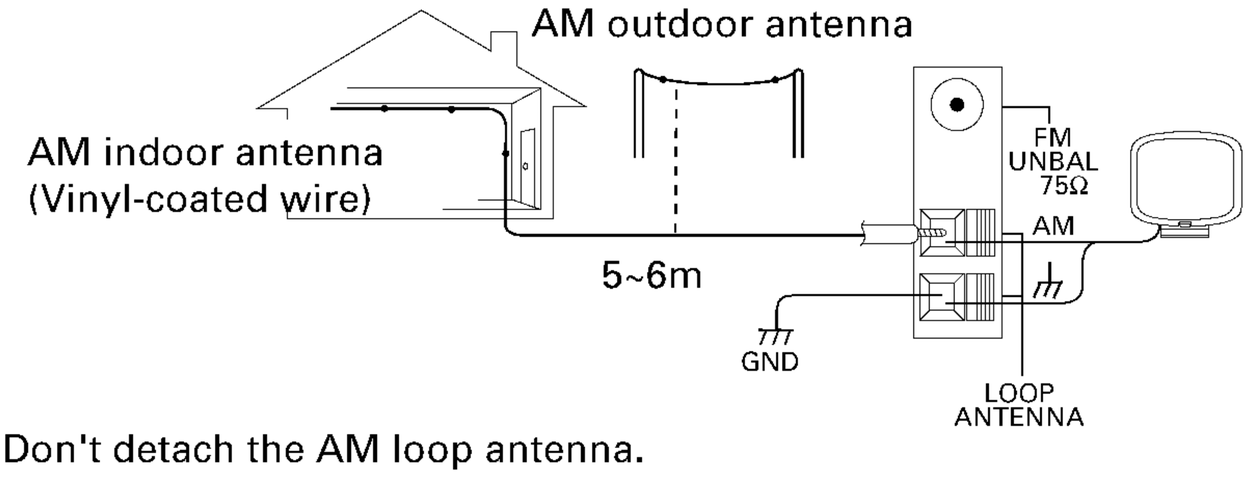
Before making or changing the connections, switch off the power switch and disconnect the power cord from the AC outlet.

■ For better reception of signals, use an FM external antenna.



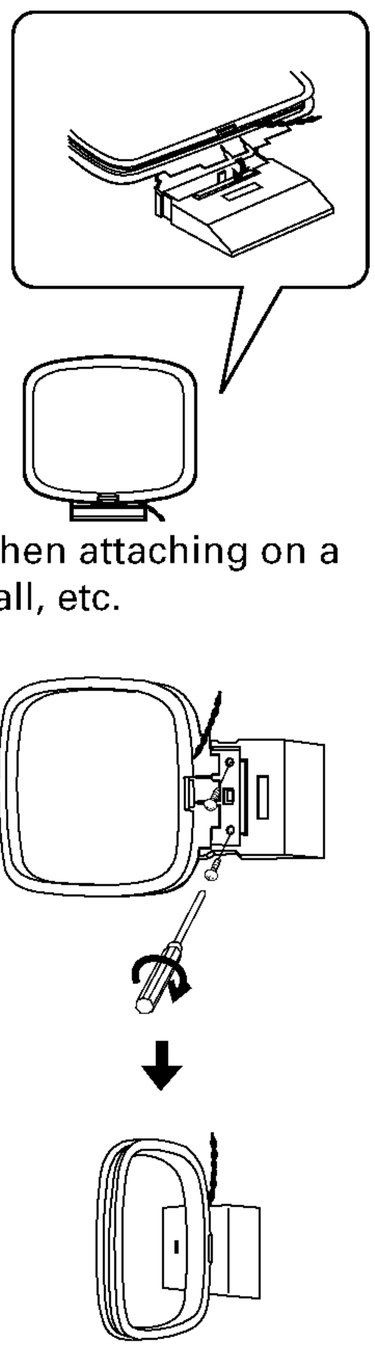
■ When AM broadcast reception is poor

Connect a 5 to 6 meter long vinyl-coated wire to the AM antenna terminal. If possible draw horizontally outdoors to achieve better reception.



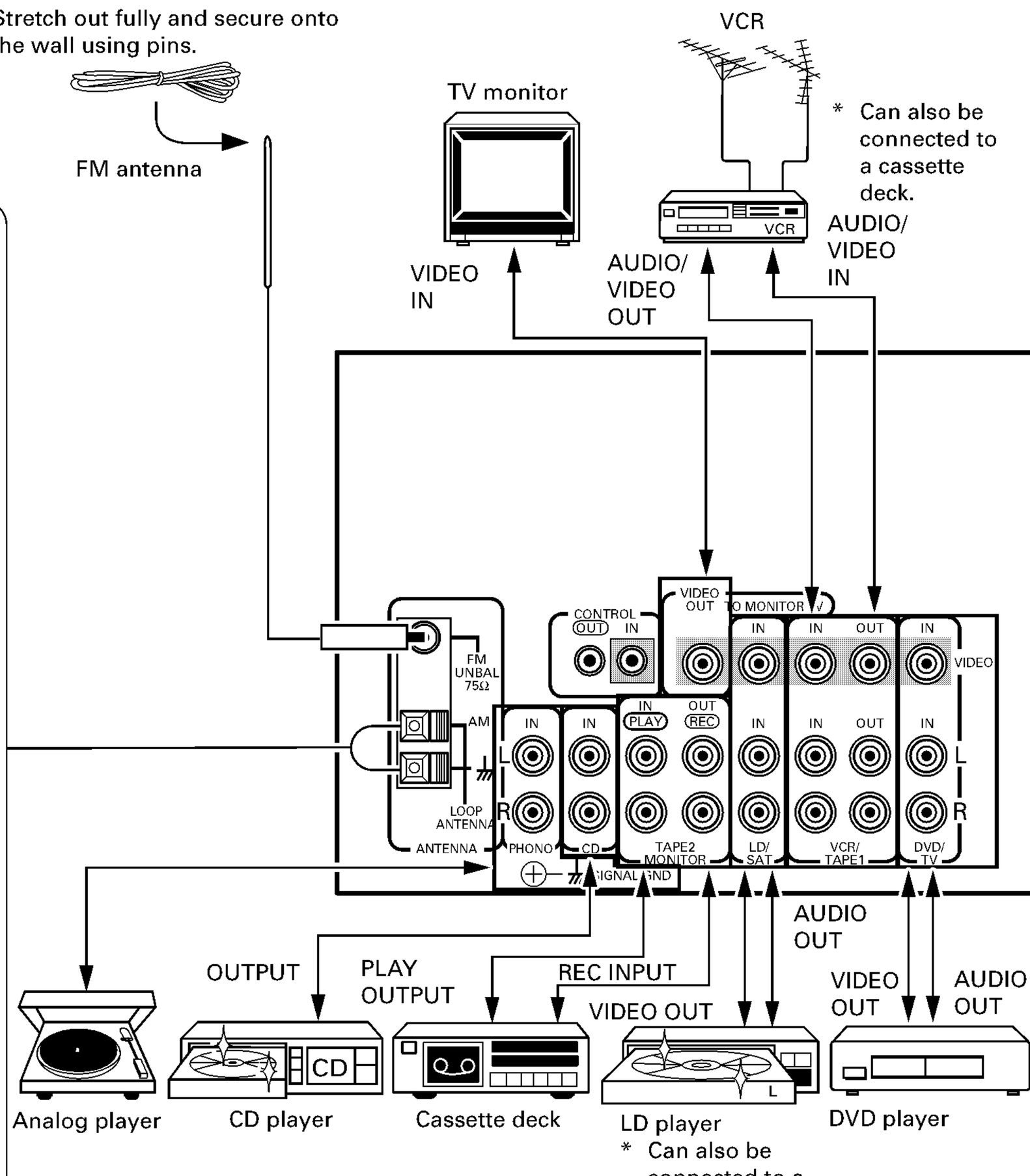
Don't detach the AM loop antenna.

■ Assembling the AM loop antenna

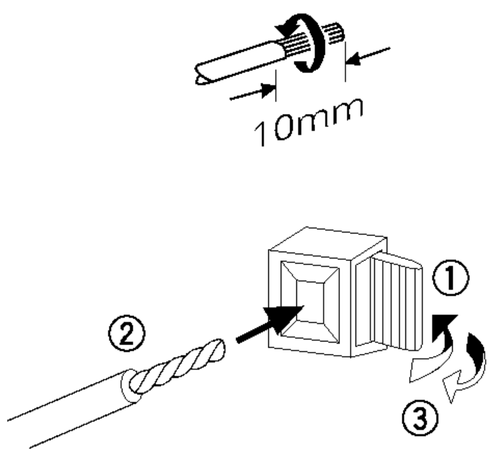


When attaching on a wall, etc.

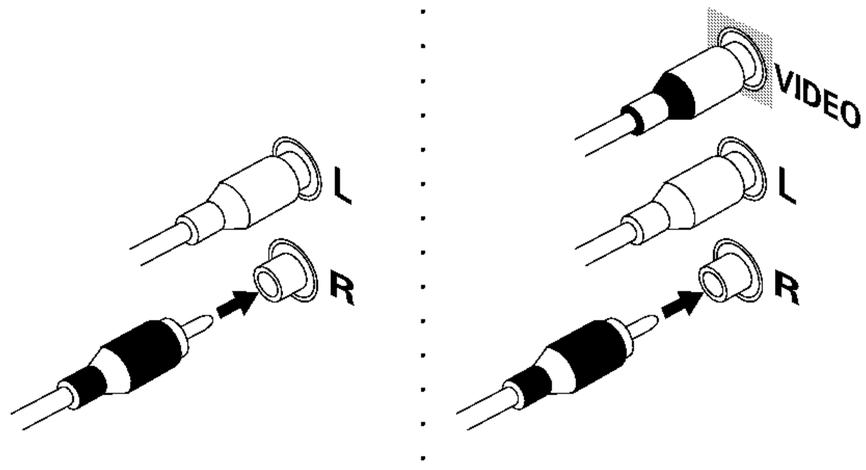
Face towards the direction with the best reception.



■ AM antenna terminal

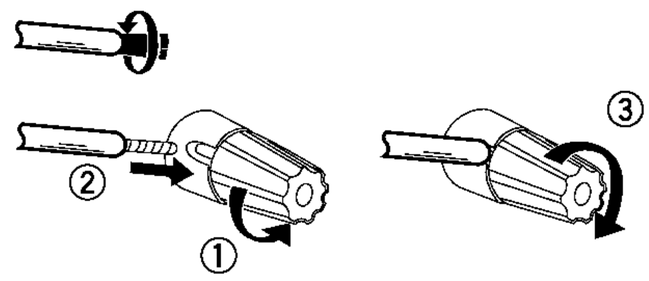


■ Input/output plugs

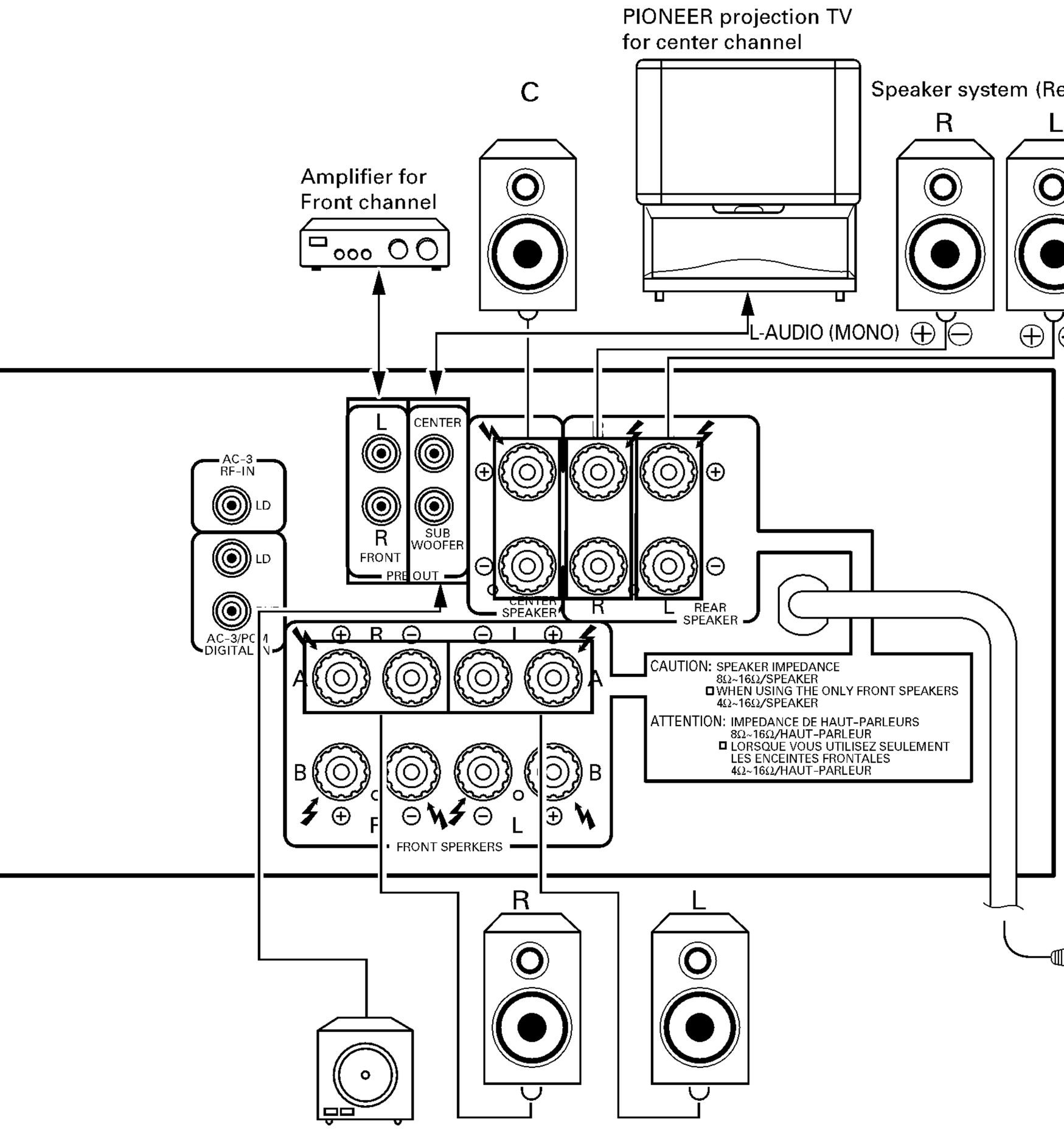


Connect the white plug to L, red plug to R, and yellow plug to VIDEO. Be sure to insert completely.

■ Speaker terminal

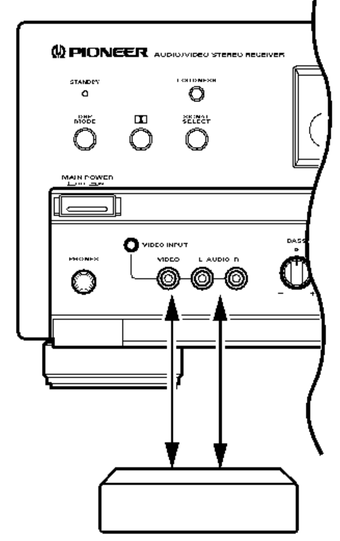


* The size of characters and terminal positions in the figures may differ from those on the actual product.

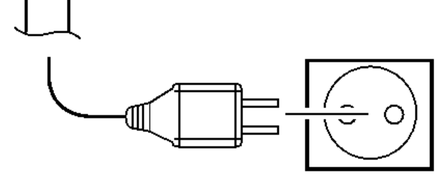


* The sub woofer can be connected in a different way. For details, refer to the instructions on the sub woofer.

■ Front Panel



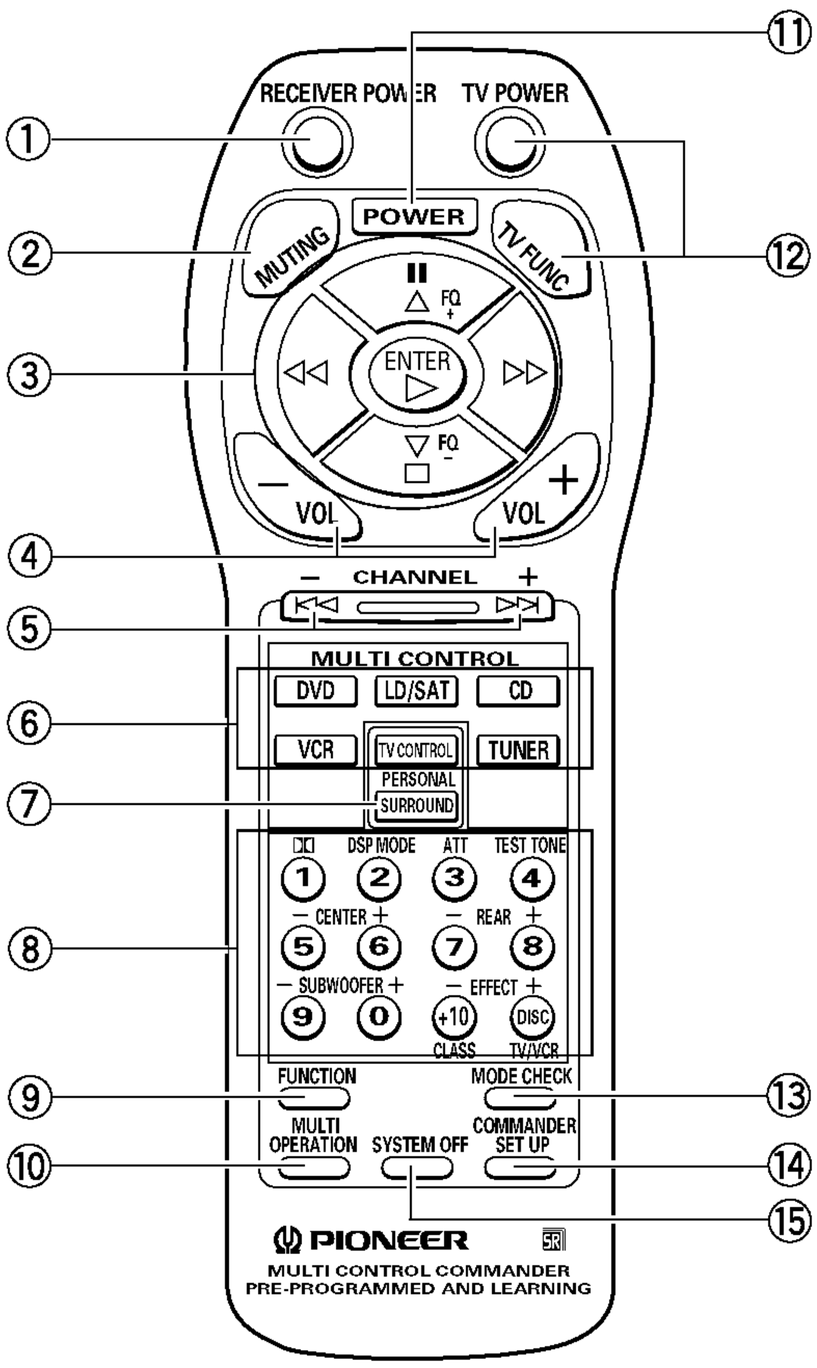
Video equipment such as video camera, etc.



memo

Use nominal impedances ranging from 8 Ω to 16 Ω for the speaker system.
When using the only front speakers, use nominal impedances ranging from 4 Ω to 16 Ω.

Remote control unit



① **RECEIVER POWER button**

② **MUTING button**
Press to mute the volume.

③ **[When set to SURROUND (OPERATIONS)]**
△,▽,◁◁,▷▷ (Select/Adjust), ENTER buttons
[When set to other than SURROUND (OPERATIONS)]
⏸(Pause), □ (Stop), ◁◁(Rewind), ▷▷(Fast Forward), ▷ (Play) buttons
[Tuner Operations]
△,▽ (FREQ +, –), ▷ (FM/AM) buttons

④ **VOL (–, +) buttons**

⑤ **[TV Operations]**
Selects the TV broadcast channel.
[Tuner Operations]
Selects the Tuner station.
[CD, LD, DVD operations]
⏮, ⏭ (Chapter/Track Search) buttons
[VCR Operations]
Changes the channels of the TV tuner in the VCR.

⑥ **MULTI CONTROL function buttons**
Used to set and operate the MULTI CONTROL, and switch the function.
TV CONTROL: Press to operate TV.

⑦ **SURROUND/PERSONAL button**
[When setting MULTI operations]
Press when setting to the personal mode using multi operations.
[When setting to other than multi operation]
Press when performing surround operations and setting/changing setting modes.

⑧ **Number/surround setting buttons**
[When setting surround (operations)]
DD : Turns the Dolby Mode ON/OFF.
DSP MODE: Switches the surround effects.
ATT: When turned ON when the sound is unstable due to excessive input levels, the input signal level drops so that the sound becomes easier to listen to.
When connecting a LD player or DVD player with the AC-3 RF-IN terminal or AC-3/PCM DIGITAL IN terminal, the inputted sound signal is not effective.
TEST TONE: When turned ON (while in surround mode), volume balance adjustment signals are output in order from the speakers and can be adjusted.
CENTER –, +: Adjusts the center level.
REAR –, +: Adjusts the rear level.
SUB WOOFER –, +: Adjusts the sub woofer level.
EFFECT –, +: Adjusts DSP effects.
[Tuner Operations]
Number buttons: Use for setting the frequency value when the station call is selected or during direct access.
CLASS: Switches the CLASS number.
DISC: Use to set the direct access mode.
[VCR operations]
Number buttons: Used for selecting the channel of the TV tuner in the VCR.
TV/VCR: Switches between TV/VCR.
[CD Operations]
DISC: Use to select the DISC number.

⑨ **FUNCTION button**
Switches the function.

⑩ **MULTI OPERATION button**
Use to set the multi operation.

⑪ **POWER button**
Turns ON/OFF the power of devices other than this unit.

⑫ **TV buttons**

⑬ **MODE CHECK button**

⑭ **COMMANDER SET UP button**
Use to control and learn operations of other manufacturer's equipment, and set multi operation functions.

⑮ **SYSTEM OFF button**
Use to turn OFF the power of all equipment connected to the main unit.

SPECIFICATIONS

Amplifier Section

Continuous average power output of 65 watts* per channel, min., at 8 ohms, from 20 Hz to 20,000 Hz with no more than 0.09 % total harmonic distortion (front).**

Continuous Power Output
(DIN, 1 kHz, T.H.D. 1 %, 4 Ω)
STEREO Front ..... 110 W + 110 W
(DIN, 1 kHz, T.H.D. 1 %, 8 Ω)
STEREO Front ..... 80 W + 80 W
SURROUND Front ..... 60 W + 60 W
Center ..... 60 W
Rear ..... 60 W + 60 W

Input (Sensitivity/Impedance)
PHONO MM ..... 2.8 mV/47 kΩ
LD/SAT, CD, VCR/TAPE 1, TAPE 2
DVD/TV, VIDEO ..... 200 mV/47 kΩ
Phono Overload Level (T.H.D. 0.1 %, 1kHz)
PHONO MM ..... 100 mV
Frequency Response
PHONO MM ..... 20 Hz to 20,000 Hz ± 0,5 dB
LD/SAT, CD, VCR/TAPE 1, TAPE 2
DVD/TV, VIDEO ..... 5 Hz to 100,000 Hz $^{+0}_{-3}$ dB
Output (Level/Impedance)
VCR/TAPE 1 REC, TAPE 2 REC ..... 200 mV/1 kΩ
Tone Control
BASS ..... ± 9 dB (100 Hz)
TREBLE ..... ± 9 dB (10 kHz)
Signal-to-Noise Ratio [DIN (Continuous power output/50 mW)]*
PHONO MM ..... 67 dB/61 dB
LD/SAT, CD, VCR/TAPE 1, TAPE 2
DVD/TV, VIDEO ..... 82 dB/62 dB

* *Direct: ON*
** *Measured by Audio Spectrum Analyzer.*

VIDEO Section

Input (Sensitivity/Impedance)
LD/SAT, VCR, DVD/TV, VIDEO ..... 1 Vp-p/75 Ω
Output (Level/Impedance)
VCR REC, MONITOR TV ..... 1 Vp-p/75 Ω
Frequency Response
LD/SAT, VCR, DVD/TV, VIDEO
→ MONITOR ..... 5 Hz to 7 MHz $^{+0}_{-3}$ dB
Signal-to-Noise Ratio ..... 55 dB
Cross Talk ..... 55 dB

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FM Tuner Section

Frequency Range ..... 87,5 MHz to 108 MHz
Usable Sensitivity ..... Mono: 14.2 dBf, IHF (1.4 µV/75 Ω)
50 dB Quieting Sensitivity ..... Mono: 18 dBf
Stereo: 38.3 dBf
Signal-to-Noise Ratio ..... Mono: 76 dB (at 85 dBf)
Stereo: 72 dB (at 85 dBf)
Distortion ..... Stereo: 0.6 % (1kHz)
Alternate Channel Selectivity ..... 70 dB (400 kHz)
Stereo Separation ..... 40 dB (1 kHz)
Frequency Response ..... 30 Hz to 15 kHz (± 1) dB
Antenna Input ..... 75 Ω unbalanced
Sensitivity (DIN) ..... Mono: 1.0 µV (S/N 26 dB)
Stereo: 50 µV (S/N 46 dB)
Signal-to-Noise Ratio (DIN) ..... Mono: 62 dB
Stereo: 58 dB

AM Tuner Section

Frequency Range ..... 531 kHz to 1,602 kHz
Sensitivity (IHF, Loop antenna) ..... 350 µV/m
Selectivity ..... 30 dB
Signal-to-Noise Ratio ..... 50 dB
Antenna ..... Loop antenna

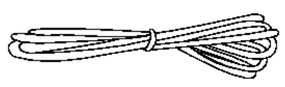
Miscellaneous

Power Requirements
Singaporian model ..... AC 220-230 V, 50/60 Hz
Australian model ..... AC 240 V, 50/60 Hz
Power Consumption ..... 770 W
Dimensions ..... 420 (W) × 160 (H) × 433 (D) mm
Weight (without package) ..... 12.5 kg

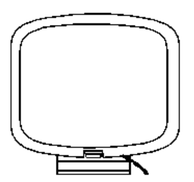
Furnished Parts

FM Antenna 1
AM Loop Antenna 1
Dry Cell Batteries [size "AA" (IEC LR6)] 2
Remote Control Unit 1
Operating Instructions 1
Warranty Card (Australian model only) 1
Sub Instruction Manual (Remote Control Unit) 1
Sub Instruction Manual [Dolby Digital (AC-3)] 1

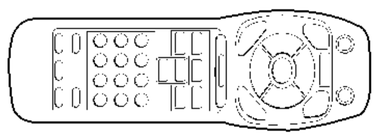
NOTE:
Specifications and the design are subject to possible modifications without notice, due to improvements.



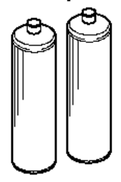
FM antenna



AM loop antenna



Remote control unit



Alkaline dry cell battery
(size "AA" IEC LR6) x 2